Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name: DD-Härter B05-901/67 for DD-Lackfarbe, mixing rate 2:1

Unique Formula Identifier (UFI-Code): FC00-60K5-W004-GHH5

Product type: Curing agent

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Field of application: metal industry

Identified uses: Industrial applications, Professional applications, Used by spraying.

#### 1.3 Details of the supplier of the safety data sheet:

Producer/Supplier Bisdorf GmbH

Industriestraße 49-51 D-52224 Stolberg

 Telephone
 +49 (0) 2402 / 71048

 Telefax
 +49 (0) 2402 / 75465

 E-Mail adress
 bisdorf-lacke@arcor.de

1.4 Emergency telephone number

Emergency information Information Center against Poisons

University Bonn

Telephone number +49 (0)228 / 19240

Date of issue: 07.11.2025

Date of previous issue: 07.10.2023

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification acc. to GHS

Section	Hazard class	Hazard class and category	Hazard statement
2.6	flammable liquid	Flam. Liq. 3	H226
3.11	acute toxicity (inhal.)	Acute Tox. 4	H332
3.2	skin corrosion/irritation	Skin Irrit. 2	H315
3.4S	skin sensitisation	Skin Sens. 1	H317
3.3	serious eye damage/eye irritation	Eye Irrit. 2	H319
3.4R	skin sensitisation	Resp. Sens. 1	H334
3.9	specific target organ toxicity - repeated exposure	STOT RE 2	H373

See Section 11 for more detailed information on health effects and symptoms.

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2.2 Label elements

Hazard pictograms:







Signal word: Danger

Hazard statements: H226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties

if inhaled

H373 - May cause damage to organs through prolonged or repeated

exposure.

EUH066 - Repeated exposure may cause skin dryness or cracking. EUH204 - Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

Prevention: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

Response: P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 - Get medical advice/attention if you feel unwell.

P331 - Do NOT induce vomiting.

Storage: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

Disposal: P501 - Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Supplemental label elements:

"As from 24 August 2023 adequate training is required before industrial or

professional use."

EUH204 Contains isocyanates. May produce an allergic reaction.

Indication at Labelling:

The pictogram GHS 02 (flame) can according GHS/CLP Art. 33 (3) substituted to label of ADR.

## 2.3 Other hazards

Endocrine disrupting properties (human health):

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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Endocrine disrupting properties (environment):

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT and vPvB assessment:

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification 1272/2008/EC (CLP)	Туре
xylene (mixture of isomers)	REACH: 01-2119488216-32 CAS: 1330-20-7 EG: 215-535-7	15-20	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (hearing organs)	[1] [2]
ethylbenzene	REACH: 01-2119489370-35 CAS: 100-41-4 EG: 202-849-4	1-5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373 (hearing organs)	[1] [2]
2-methoxy-1- methylethylacetate (PMA)	REACH: 01-2119475791-29 CAS: 108-65-6 EG: 203-603-9	10-15	Flam. Liq. 3, H226	[2]
n-butyl acetate	REACH: 01-2119485493-29 CAS: 123-86-4 EG: 204-658-1	5-10	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
aromatic polyisocyanate	REACH: Polymer CAS: 53317-61-6 EG: 500-120-8	50-60	Skin Sens. 1, H317 Eye Irrit. 2, H319	[1]
m-tolylidene diisocyanate, toluene-diisocyanate	REACH: 01-2119454791-34 CAS: 26471-62-5 EG: 247-722-4	<0,4	Acute Tox. 2, H330 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 (Respiratory tract Irritation) Carc. 2, H351 Aquatic Chronic 3, H412	[1] [3]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Restriction on the industrial and commercial use of this product, as the concentration is greater than 0.1%.

Occupational exposure limits, if available, are listed in Section 8.

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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General information: In all cases of doubt, or when symptoms persist, seek medical attention. If

unconscious, place in recovery position and get medical attention immediately. Never give anything by mouth to an unconscious person. In any case show the

physician the Safety Data Sheet.

Inhalation: Remove affected persons from dangerous area by observing suitable respiratory

Protection measures. Remove the casualty into fresh air and keep at rest. After intensive inhalation consult a doctor in every case, even if no symptoms occur.

Skin contact: Take off immediately all contaminated clothing. Wash contaminated clothing before

reusing. Do not allow the product to dry on the skin. Wash skin thoroughly with soap and water or use recognised skin cleanser. Consult a doctor in case of persisting skin

irritation.

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids

open. Begin with medical treatment.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce

vomiting unless directed to do so by medical personnel. Seek medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

General information: When inhaled or swallowed depending on the time and amount, it can give rise to the

following symptoms: headaches, giddiness, tiredness, nausea, vomiting, irregular

heart beat, intoxication, unconsciousness, asphyxiation and fatality.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Symptomatic treatment.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



Suitable: Extinguishing measures to suit surroundings. In case of fire, use water spray jet, dry

extinguishing powder, foam or carbon dioxide.

Not suitable: water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion

Products: Fire will produce dense black smoke containing hazardous combustion products.

In a fire, the following may be released: carbon dioxide, carbon monoxide, not

combusted hydrocarbons.

#### 5.3 Advice for firefighters

Special protective

equipment for fire-fighters: During fire-fighting wear self-contained breathing apparatus and protective clothing.

Additional information: The product is flammable. Use water spray to keep fire-exposed containers cool.

Use extinguishing media suitable for surrounding materials. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with

local regulations.

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### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

General information: To avoid fire, eliminate ignition sources. Provide adequate ventilation. Use personal

protective equipment. Avoid contact with eyes, skin and clothing. Avoid breathing

vapours, spray or mists.

#### 6.2 Environmental precautions

General information: Do not discharge into the drains / surface waters / groundwater. Prevent spread

over a wide area e.g. by containment or oil barriers.

#### 6.3 Methods and material for containment and cleaning up

General information: Absorb with liquid-binding material (sand, diatomite, universal binders etc.) or use

a spill kit. Containers in which spilt substance has been collected must be adequately labelled. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal

legislation and any regional local authority requirements.

#### 6.4 Reference to other sections

General information: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Protective measures: Keep away from sources of ignition - No smoking. Vapours may form explosive

mixtures with air.

Take precautionary measures against electrostatic discharges. Provide good ventilation of working area. The working procedure should be planned as far as allowed by state-of-the-art technology so as to avoid release of hazardous substances or prevent skin contact. The level of risk involved in product handling must be reduced to a minimum by means of protective and preventive measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

General information: Store in a dry, cool and well-ventilated area. Keep container tightly closed and

sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers.

Use appropriate containment to avoid environmental contamination. Store in

accordance with local regulations.

German storage class: 10 - Combustible liquids neither in Storage Class 3

#### 7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

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## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## Occupational exposure limit values (Workplace Exposure Limits)

Product/ingrediet name	CAS-Nr.	Nota -tion	ldenti- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
xylene (mixture of isomers)	1330-20-7	skin	IOELV	50	221	100	442	2017/164/EU
ethylbenzene	100-41-4	skin	IOELV	100	442	200	884	2017/164/EU
2-methoxy-1-methyl- ethylacetate (PMA)	108-65-6		IOLEV	50	275	270	550	2000/39/EG
n-butyl acetate	123-86-4	skin	MAK	2	11	4	22	DFG/GER
Di-isocyanatotoluene (mixture of isomers)	584-84-9	Sa			0,035		0,02	ACGIH

#### Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

Sa Sensitizing substance by inhalation.

#### **DNELs/DMELs**

Product/ingredient name		
xylene (mixture of isomers)		
Oral	DNEL (population)	1,6 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	180 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	108 mg/kg bw/day (Long-term - systemic effects)
Inhalation	DNEL (worker)	77 mg/m³ (Long-term - systemic effects)
		289 mg/m³ (Acute - systemic and local effects)
	DNEL (population)	14,8 mg/m³ (Long-term - systemic effects)
		174 mg/m³ (Acute - systemic and local effects)

Product/ingredient name		
ethylbenzene		
Dermal	DNEL (worker)	180 mg/kg bw/day (Long-term - systemic effects)
Inhalation	DNEL (worker)	77 mg/m³ (Long-term - systemic effects)
		289 mg/m³ (Acute - systemic and local effects)

Product/ingredient name				
2-methoxy-1-methylethylacetate (PMA)				
Oral	DNEL (population)	36 mg/kg bw/day (Long-term - systemic effects)		
Dermal	DNEL (worker)	796 mg/kg bw/day (Long-term - systemic effects)		
	DNEL (population)	320 mg/kg bw/day (Long-term - systemic effects)		
Inhalation	DNEL (worker)	275 mg/m³ (Long-term - systemic effects)		
	DNEL (population)	33 mg/m³ (Long-term - systemic effects)		

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Product/ingredient name		
n-butyl acetate		
Oral	DNEL (population)	2 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	11 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	6 mg/kg bw/day (Long-term - systemic effects)
Inhalation	DNEL (worker)	600 mg/m³ (Acute - local effects)
		300 mg/m³ (Long-term - systemic effects)
	DNEL (population)	300 mg/m³ (Acute - local effects)
		35,7 mg/m³ (Long-term - systemic effects)

Product/ingredient name		
Di-isocyanatotoluene (mixture of isor	ners)	
Inhalation	DNEL (worker) DNEL (worker)	0,14 mg/m³ (Acute - systemic and local effects) 0,035 mg/m³ (Long-term - systemic and local effects)

### **PNECs**

Product/ingredient name	
xylene (mixture of isomers)	
20.50	0.007 ////
PNEC aqua	0,327 mg/l (fresh water)
	0,327 mg/l (marine water)
PNEC	6,58 mg/l (STP (sewage treatment plant))
	2,31 mg/kg dw (soil)
PNEC sediment	12,46 mg/kg dw (fresh water)
	12,46 mg/kg dw (marine water)

Product/ingredient name	
ethylbenzole	
PNEC aqua	0,1 mg/l (fresh water)
	0,01 mg/l (marine water)
PNEC	6,58 mg/l (STP (sewage treatment plant))
	2,68 mg/kg dw (soil)
PNEC sediment	13,7 mg/kg dw (fresh water)
	1,37 mg/kg dw (marine water)

Product/ingredient name		
2-methoxy-1-methylethylacetate (PMA)		
PNEC aqua	0,635 mg/l (fresh water)	
	0,064 mg/l (marine water)	
PNEC	100 mg/l (STP (sewage treatment plant))	
	0,29 mg/kg dw (soil)	
PNEC sediment	3,29 mg/kg dw (fresh water)	
	0,329 mg/kg dw (marine water)	

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Product/ingredient name	
n-butyl acetate	
PNEC aqua	0,18 mg/l (fresh water)
	0,018 mg/l (marine water)
PNEC	35,6 mg/l (STP (sewage treatment plant))
	0,09 mg/kg dw (soil)
PNEC sediment	0,981 mg/kg dw (fresh water)
	0,098 mg/kg dw (marine water)

Product/ingredient name	
Di-isocyanatotoluene (mixture o	of isomers)
PNEC aqua	0,013 mg/l (fresh water)
	0,00125 mg/l (marine water)
PNEC	>1 mg/l (STP (sewage treatment plant))
	>1 mg/kg dw (soil)
PNEC sediment	Not relevant. (fresh water)
	Not relevant. (marine water)

#### 8.2 Exposure controls / personal protection

Engineering measures

Refer to protective measures listed in sections 7.

#### Personal protective equipment:

**Respiratory protection** Use a properly fitted, air-purifying or air-fed respirator complying with an

approved standard if a risk assessment indicates this is necessary.

Respirator selection must be based on known or anticipated

exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an

approved/certified respirator or equivalent.

Hand protection If there is a potential for product skin contact, use of gloves tested to e.g.

EN 374 will provide sufficient protection. Protective gloves should in any case be tested for workplace-specific suitability (e.g. mechanical resistance, product compatibility, antistatic properties). Comply with instructions and information provided by the glove manufacturer concerning use, care and replacement of the gloves. Replace protective gloves immediately upon damage or at the first signs of wear. As far as possible, plan work procedures

so that wearing gloves will not be necessary.

	Long term exposure	Short term exposure
Recommended gloves should be made of	Viton®	Nitril.
Material thickness	>0,7 mm	>0,4 mm
Permeation time	>480 min	>480 min

**Eye protection** Safety goggles with lateral shielding (DIN EN 166)

**Body protection** Usual working clothes for the chemical industry, suitable for the job.

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Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: Fluid Colour: Yellowish

**Odor:** Characteristic

**Odor threshold:** Not relevant for the hazard classification of the product.

#### Security-relevant basic data

Parameter	
pH-value	Not applicable.
Melting point/Melting range	<-25 °C
Boiling point/Boiling range	136 - 145 °C
Flash point	~23-27 °C (IP 170 (ABEL))
Flammability (solid / gas)	Not applicable.
Ignition temperature	~460 ° C (lowest value of the individual components)
Decomposition temperature	Not determined.
Auto-ignition temperature	The product is not self-igniting.
Explosive properties	Product is not explosive. However, formation of explosive air/steam mixtures as possible.
Explosion limits Lower Upper Oxidizing properties	1 %(Vol) 7 %(Vol) Not determined
Vapour pressure	10 hPa (20 °C)
Density	~1,10 g/cm³ (20 °C)
Vapor density	Not determined
Evaporation rate	No data available.
Solubility in Miscibility with water	Organic solvents (see point 3) 0.175 g/l
Partition coefficient: (n-octanol/water)	Testing not relevant or not possible due to nature of the product.
Viscosity (expiry time after DIN 53211) Dynamic: Kinematic:	~60 s DIN 4mm (20°C)
Solvent separation test	< 3% (20°C)

## 9.2. Other information

No additional information.



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## **SECTION 10: Stability and reactivity**

10.1 Reactivity

General information: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

General information: The product is stable.

10.3 Possibility of hazardous reactions

General information: Rubber and other synthetic material can be affected.

10.4 Conditions to avoid

General information: The product is flammable. Keep away from excessive heat, sparks or open fire.

10.5 Incompatible materials

General information: oxidising agents, acids

10.6 Hazardous decomposition products

General information: Thermal disintegration depends to a great extent on the external conditions. A

complex mixture of solids, liquids and gases forms in the air, including among other substances carbon dioxide, carbon monoxide and other organic compounds, when

this material is burnt or is thermally or oxidatively degraded.

## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
xylene (mixture of isomers)	LC50 Inhalation Gas	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17,2 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2-methoxy-1-methylethylacetate (PMA)	LC50 Inhalation Vapour	Rat	> 10,8 mg/l	6 hours
	LD50 Dermal	Rabbit	> 5 000 mg/kg	-
	LD50 Oral	Rat	> 5 000 mg/kg	-
n-butyl acetate	LC50 Inhalation Gas	Rat	2730 ppm	4 hours
	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
aromatic polyisocyanate	LC50 Inhalation Vapour	Rat	> 2,462 mg/l	4 hours
	LD50 Dermal	Rabbit	-	-
	LD50 Oral	Rat	>5000 mg/kg	-
Di-isocyanatotoluene	LC50 Inhalation Vapour	Rat	0,107 mg/l	4 hours
(mixture of isomers)	LD50 Dermal	Rabbit	> 9.400 mg/kg	-
	LD50 Oral	Rat	4130 mg/kg	-

Acute toxicity estimates

Route	ATE-Value
Oral	not rated
Dermal	not rated
Inhalation (vapors)	38,505 mg/l/4h

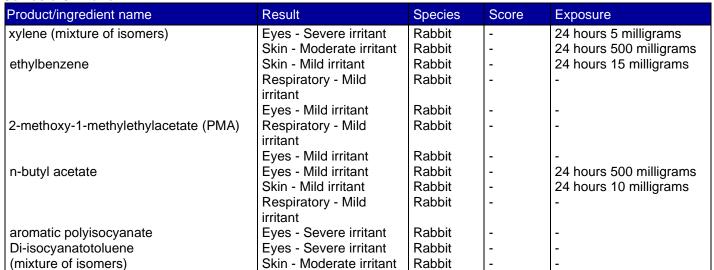
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#### Corrosion/Irritation



#### Sensitiser

Product/ingredient name	Route of exposure	Species	Result
aromatic polyisocyanate Di-isocyanatotoluene (mixture of isomers)	Skin	Guinea pig	Sensitising
	Skin	Rat	Sensitising

### Mutagenicity

Remarks: No evidence of mutagenic effects.

#### Carcinogenicity

Remarks: No evidence of carcinogenic effects.

#### Di-isocyanatotoluene (mixture of isomers)

Carcinogenicity: Animal testing did not show any carcinogenic effects after inhalation. The European Union classifies this product as a carcinogen. Suspected of causing cancer (Carc. 2).

#### Reproductive toxicity

Remarks: No evidence that the substance is toxic for reproduction.

#### **Teratogenicity**

Remarks: No evidence that the substance may cause birth defects.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene (mixture of isomers)	Category 3	Not applicable.	Respiratory tract Irritation
n-butyl acetate	Category 3	Not applicable.	Narcotic effects
Di-isocyanatotoluene	Category 3	Not applicable.	Respiratory tract Irritation
(mixture of isomers)			

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene (mixture of isomers)	Category 2	Not determined	Hearing organs
ethylbenzene	Category 2	Not determined	Hearing organs



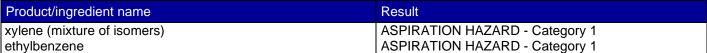
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Aspiration hazard



#### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential chronic health effects

Remarks: Not available.

### 11.2 Endocrine disrupting properties

See Section 2 for details.

#### 11.3 Other hazards

The product is flammable. Keep away from excessive heat, sparks or open fire. In use, may form flammable/explosive vapourair mixture. Electrostatic charges may be generated during pumping, release of which may cause a fire.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
xylene (mixture of isomers)	Acute EC50 3,82 mg/l	Daphnie - Daphnia magna	48 hours
	Acute EC50 4,7 mg/l	Algae- Pseudokirchneriella	72 hours
	_	subcapitata	
	Acute LC50 7,6 mg/l	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 2,4 mg/l	Daphnie - Daphnia magna	48 hours
	Acute EC50 4,6 mg/l	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute LC50 7 mg/l	Fish - Oncorhynchus mykiss	96 hours
2-methoxy-1-methylethylacetate (PMA)	Acute EC50 408 mg/l	Daphnie - Daphnia magna	48 hours
	Acute EC50 1000 mg/l	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute LC50 134 mg/l	Fish - Pimephales promelas	96 hours
n-butyl acetate	Acute LC50 44 mg/l	Daphnie - Daphnia magna	48 hours
	Acute EC50 647,7 mg/l	Algae- Pseudokirchneriella	72 hours
		subcapitata	
	Acute LC50 18 mg/l	Fish - Oncorhynchus mykiss	96 hours
aromatic polyisocyanate	Acute EC50 >100 mg/l	Daphnie - Daphnia magna	48 hours
	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute LC50 199 mg/l	Fish – Danio rerio	96 hours
Di-isocyanatotoluene	Acute EC50 12,5 mg/l	Daphnie - Daphnia magna	48 hours
(mixture of isomers)	Acute EC50 4.300 mg/l	Algae - Chlorella vulgaris	96 hours
	Acute LC50 133 mg/l	Fish - Pimephales promelas	96 hours

## 12.2 Persistence and degradability

Product/ingredient name	Result	
xylene (mixture of isomers)	87,8 % - 28 days	
ethylbenzene	>70 % - 28 days	
2-methoxy-1-methylethylacetate	83% - 28 days	
n-butyl acetate	90 % - 28 days	
aromatic polyisocyanate	-	
Di-isocyanatotoluene (mixture of isomers)	0% - 28 days	



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene (mixture of isomers)	-	-	Readily
ethylbenzene	-	-	Readily
2-methoxy-1-methylethylacetate	-	-	Readily
n-butyl acetate	-	-	Readily
aromatic polyisocyanate	-	-	Not readily biodegradable.
Di-isocyanatotoluene (mixture of isomers)	-	-	Not potentially degradable

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene (mixture of isomers)	3.16	8.1 - 25.9	low
ethylbenzene	3.6	-	low
solvent naphtha (petroleum), light arom.	3.7 bis 4.5	10 - 2500	high
1-methoxy-2-propanol (PM)	<1	-	low
methyl-methacrylate	1.38	-	low

### 12.4 Mobility in soil

Soil/water partition

coefficient (KOC): Not available.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.								

## 12.6 Endocrine disrupting properties

See Section 2 for details.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



The generation of waste should be avoided or minimised wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.

European waste catalogue (EWC): 08 01 11\*

#### **Packaging**

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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## **SECTION 14: Transport information**

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

	14.1 UN no.	14.2 Proper shipping name	14.3 Transpo	ort hazard class(es)	14.4 PG*		Additional information
ADR/RID Class	UN1263	PAINT RELATED MATERIAL	3		III	No.	Tunnel code (D/E)
IMDG Class	UN1263	PAINT RELATED MATERIAL	3	<b>*</b>	III	No.	Emergency schedules F-E, S-E
IATA Class	UN1263	PAINT RELATED MATERIAL	3	<b>*</b>	III	No.	-

PG\*.: Packing group Env.\* : Environmental hazards

#### 14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU Regulation**

Regulation (EG) Nr. 1907/2006 (REACH)

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), with supplements.

Regulation (EG) Nr. 1272/2008 (CLP)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (CLP), with supplements.

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

Substances mentioned on the so-called "candidate list of substances of very high concern (SVHC) for authorisation" published by the EChA are not intentionally added to this product. Therefore it is not expected, that these substances are present in amounts of  $\geq 0.1\%$  in this product.

#### National legislation (Germany)

Water hazard class: WGK 2 (Assessment by list): hazardous for water.

VOC: 510 g/l DIN ISO 11890 (Council Directive 1999/13/EC).

**Information about limitation of use:** Employment restrictions concerning young persons must be observed.

#### 15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

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#### **SECTION 16: Other information**

Abbreviations and acronyms:

Abbr. Descriptions of used abbreviations

ADR Accord européen relatif au transport international des marchandises dangereuses par route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

BCF bioconcentration factor

CAS Chemical Abstracts Service (service that maintains the most comprehensive list of

chemical substances)

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

CMR Carcinogenic, Mutagenic or toxic for Reproduction DGR Dangerous Goods Regulations (see IATA/DGR)

DMEL Derived Minimal Effect Level
DNEL Derived No-Effect Level

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EmS Emergency Schedule

GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed

by the United Nations

IATA International Air Transport Association

IMDG International Maritime Dangerous Goods Code IOELV indicative occupational exposure limit value

MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine

Pollutant")

PBT Persistent, Bioaccumulative and Toxic PNEC Predicted No-Effect Concentration

ppm parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Règlement concernant le transport International ferroviaire des marchandises

Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)

STEL short-term exposure limit
TWA time-weighted average
VOC Volatile Organic Compounds

vPvB very Persistent and very Bioaccumulative

Full text of classifications [CLP/GHS]:

Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4
Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4

Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 3, H225 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -

Category 3

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

1000 min 100 m				
Classification	Justification			
Flam. Liq. 3, H226	On basis of test data			
Skin Irrit. 2, H315	Calculation method			
Skin Sens. 1, H317	Calculation method			
Eye Irrit. 2, H319	Calculation method			
Acute Tox. 4 (Inhalation), H332	Calculation method			
Resp. Sens. 1, H334	Calculation method			
STOT RE 2, H373	Calculation method			

#### Notice to reader

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical preformance or suitability for particular applications. It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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### xylene, mixture of isomers

### **Annex: Exposure scenario 1**

#### SECTION 1: Title section

**Short title of the exposure scenario** Formulation & (re)packing of substances and mixtures (Industrial) **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites **Process category** 

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent

Environmental release category ERC2 Formulation into mixture

### Description of the activities / processes covered in the Exposure Scenario

Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

### SECTION 2: Conditions of use affecting exposure

The usual precautionary measures should be adhered to in handling the chemicals.

**Duration and frequency** 8hrs (full working shift).

Worker

Frequency of use: 5 workdays/week.

Physical parameters

Physical state

Fluid

Vapour pressure: 0.5-10 kPa (20 °C)

Concentration of the substance in the mixture Covers use of substance / product up to 100%

Used amount per time or activity

Regional use tonnage (tonnes/year): 15000, SU3 Annual site tonnage (tonnes/year): 3750, SU3 Maximum daily site tonnage (kg/day): 12500, SU3

Other operational conditions

Emission days / year: 300

Assumes use at not more than 20°C above ambient temperature (unless stated differently).

Assumes a good basic standard of occupational hygiene is implemented.

## Other operational conditions affecting environmental exposure

Local freshwater dilution factor: 10 Local marine water dilution factor: 100

Release fraction to air from process (initial release prior to RMM) / wide dispersive use (regional only): 1 %.

Release fraction to wastewater from process (initial release prior to RMM) / wide dispersive use: 0.2 %.

Release fraction to soil from process (initial release prior to RMM) / wide dispersive use (regional only):

0.01 %.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

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#### Other operational conditions affecting worker exposure

Clean working place and equipment every day. Avoid splashing. Remove spilled product immediately.

Keep container tightly closed in a cool place.

Avoid contact with the skin and eyes.

# Other operational conditions affecting consumer exposure during the use of the product Not applicable.

Risk management measures Ensure that personal protective measures are used at all activities.

#### Worker protection

Storage (PROC1 / PROC2):

Store substance within a closed system.

General exposures / Use (closed systems) PROC1 / PROC2 / PROC3:

Laboratory activities (PROC15):

No other specific measures identified.

Batch processes at elevated temperatures. Operation is carried out at elevated temperature (> 20°C above ambient temperature) PROC3:

Store / Handle product in closed systems.

Provide extract ventilation to points where emissions (can) occur.

Preparation of material for application. Use in contained batch (PROC3):

General exposures / Use (open systems) PROC4:

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Process sampling (PROC3):

Provide a good standard of general ventilation.

Avoid carrying out activities involving exposure for more than 1 hour(s).

Mixing operations (open systems) PROC5:

Material transfers Drum/Batch transfer (Non-dedicated facility) PROC8a:

Material transfers Drum/batch transfers (Non-dedicated facility) PROC8b:

Material transfers Drum/batch transfers (dedicated facility) PROC8b:

Filling of drums and small containers (PROC 9):

Production or preparation or articles by tabletting, compression, extrusion or pelletisation (PROC14):

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

Bulk transfers (closed systems) PROC8b:

Ensure that material transfer is avoided or provide extract ventilation. Use local exhaustion at places where emission can occur.

Equipment cleaning and maintenance (PROC 8a, 8b):

Drain or remove substance from equipment prior to break-in or maintenance.

Retain drain downs in sealed storage pending disposal or for subsequent recycle.

#### Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

The employer must ensure that the necessary personal protective devices are available and applied accordingly to the instructions.

#### Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

#### Personal protective measures

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Do not inhale gases / fumes / aerosols.

Safety glasses

Measures for consumer protection Not relevant for this Exposure Scenario.

#### Environmental protection measures

#### Δir

Treatment of air emissions is not required for the purposes of REACH compliance but may be needed to comply with other environmental legislation.

Treat air emission to provide a typical removal efficiency of (%): 0

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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Sludge treatment: Incineration or in a landfill

Prevent discharge of undissolved substance to or recover from onsite wastewater.

Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%):

93.0

Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal

(kg/day): 6.31

Assumed domestic sewage treatment plant flow (m3/d): 2000

Soil Use bunds or dykes around storage facilities to prevent soil and water pollution in the event of a spill.

Disposal measures

External treatment and disposal of waste should comply with applicable local and/or national regulations. External recovery and recycling of waste should comply with applicable local and/or national regulations.

Waste type Partially emptied and uncleaned packaging

Notes Disposal must be made according to official regulations.

**SECTION 3: Exposure estimation** 

Worker (oral) No significant oral exposure.

Worker (dermal)

PROC 1/3/15:

Exposure estimate: 0.34 mg/kg/day

RCR: 0 PROC 2:

Exposure estimate: 1.37 mg/kg/day

RCR: 0.01 PROC 4 / 8b / 9:

Exposure estimate: 6.86 mg/kg/day

RCR: 0.04 PROC 5 / 8a:

Exposure estimate: 13.71 mg/kg/day

RCR: 0.04 PROC 14:

Exposure estimate: 3.43 mg/kg/day

RCR: 0.02

Worker (inhalation)

PROC 1:

Exposure estimate: 0.01 ppm

RCR: 0 PROC 2 / 15:

Exposure estimate: 10 ppm

RCR: 0.56 PROC 3:

Exposure estimate: 17.5 ppm

RCR: 0.99 PROC 4:

Exposure estimate: 14 ppm

RCR: 0.79

PROC 5 / 8a / 8b / 9 / 14: Exposure estimate: 15 ppm

RCR: 0.85

Environment The calculated value is smaller than the PNEC.

Consumer Not relevant for this Exposure Scenario.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



#### SECTION 4: Guidance for downstream users

The exposure estimation was carried out in accordance with ECETOC TRA.

Version 3. http://www.ecetoc.org/tra

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/ Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/ Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



## **Annex: Exposure scenario 2**

#### **SECTION 1: Title section**

Short title of the exposure scenario Uses in Coatings - Industrial

**Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites **Process category** 

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent

#### Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

### Description of the activities / processes covered in the Exposure Scenario

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

#### SECTION 2: Conditions of use affecting exposure

The usual precautionary measures should be adhered to in handling the chemicals.

Duration and frequency 8hrs (full working shift).

Worker

Frequency of use: 5 workdays/week.

Physical parameters

Physical state

Fluid

Vapour pressure: 0.5-10 kPa (20 °C)

**Concentration of the substance in the mixture** Covers use of substance / product up to 100%

Used amount per time or activity

Regional use tonnage (tonnes/year): 5000, SU3 Annual site tonnage (tonnes/year): 5000, SU3 Maximum daily site tonnage (kg/day): 17000, SU3

Other operational conditions

Continuous release. Emissiondays /year: 300

Assumes use at not more than 20°C above ambient temperature (unless stated differently).

Assumes a good basic standard of occupational hygiene is implemented.

### Other operational conditions affecting environmental exposure

Local freshwater dilution factor: 10 Local marine water dilution factor: 100

Release fraction to air from process (initial release prior to RMM) / wide dispersive use (regional only): 98 %.

[21]

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

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Release fraction to wastewater from process (initial release prior to RMM) / wide dispersive use: 0.7 %. Release fraction to soil from process (initial release prior to RMM) / wide dispersive use (regional only): 0 %

#### Other operational conditions affecting worker exposure

Clean working place and equipment every day. Avoid splashing. Remove spilled product immediately. Keep container tightly closed in a cool place.

Avoid contact with the skin and eyes.

Other operational conditions affecting consumer exposure during the use of the product Not applicable.

#### Risk management measures

Ensure that personal protective measures are used at all activities.

Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.

#### Worker protection

Storage (PROC1 / PROC2):

Store substance within a closed system.

General exposures / Use (closed systems) PROC1 / PROC2 / PROC3:

Laboratory activities (PROC15):

No other specific measures identified.

Film formation - force drying, stoving and other technologies (closed systems).

Operation is carried out at elevated temperature (> 20°C above ambient temperature) PROC2:

Store / Handle product in closed systems.

Provide extract ventilation to points where emissions (can) occur.

Mixing operations (closed systems) PROC:

Film formation - air drying (PROC4):

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Preparation of material for application (PROC5):

Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).

Avoid manual contact with wet work pieces.

Transfer from/pouring from containers (PROC8a,8b,9):

Apply by Rolling or Brushing (PROC10):

Treatment by dipping and pouring (PROC13):

Production or preparation or articles by tabletting, compression, extrusion or pelletisation (PROC14):

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

Material transfers Drum/Batch transfer (Non-dedicated facility) PROC8a:

Material transfers Drum/batch transfers (Non-dedicated facility) PROC8b:

Material transfers Drum/batch transfers (dedicated facility) PROC8b:

Ensure that material transfer is avoided or provide extract ventilation.

Spraying (automatic/robotic) PROC7:

Carry out in a vented booth or extracted enclosure.

Spraying (PROC 7 (manuell)):

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

Wear a respirator conforming to EN140 with Type A filter or better.

Equipment cleaning and maintenance (Non-dedicated facility) PROC 8a:

Drain or remove substance from equipment prior to break-in or maintenance.

#### Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

The employer must ensure that the necessary personal protective devices are available and applied accordingly to the instructions.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

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Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

#### Personal protective measures

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Do not inhale gases / fumes / aerosols.

Safety glasses

Measures for consumer protection Not relevant for this Exposure Scenario.

#### Environmental protection measures

Air

Treatment of air emissions is not required for the purposes of REACH compliance but may be needed to comply with other environmental legislation.

Treat air emission to provide a typical removal efficiency of (%): 90

Water

Sludge treatment: Incineration or in a landfill

Prevent discharge of undissolved substance to or recover from onsite wastewater.

Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%): 93.6

Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/day): 69000

Assumed domestic sewage treatment plant flow (m3/d): 2000

**Soil** Use bunds or dykes around storage facilities to prevent soil and water pollution in the event of a spill. **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.

Disposal measures

External treatment and disposal of waste should comply with applicable local and/or national regulations. External recovery and recycling of waste should comply with applicable local and/or national regulations.

Waste type Partially emptied and uncleaned packaging

Notes Disposal must be made according to official regulations.

#### SECTION 3: Exposure estimation

Worker (oral) No significant oral exposure.

Worker (dermal) PROC 1/3/15:

Exposure estimate: 0.34 mg/kg/day

RCR: 0 PROC 2 / 8a:

Exposure estimate: 1.37 mg/kg/day

RCR: 0.01 PROC 4 / 13:

Exposure estimate: 13.71 mg/kg/day

RCR: 0.08 PROC 5:

Exposure estimate: 0.07 mg/kg/day

RCR: 0

PROC 7 (automatisch):

Exposure estimate: 2.14 mg/kg/day

RCR: 0.01

PROC 7 (manuell):

Exposure estimate: 42.86 mg/kg/day

RCR: 0.24

PROC 8a (Anlagenr.):

Exposure estimate: 0.69 mg/kg/day

RCR: 0



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

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PROC 8b / 9:

Exposure estimate: 6.86 mg/kg/day

RCR: 0.04 PROC 10:

Exposure estimate: 27.43 mg/kg/day

RCR: 0.15 PROC 14:

Exposure estimate: 3.43 mg/kg/day

RCR: 0.02

Worker (inhalation)

PROC 1:

Exposure estimate: 0.01 ppm

RCR: 0

PROC 2 / 8a (Anlagenr.) / 15: Exposure estimate: 10 ppm

RCR: 0.56 PROC 3:

Exposure estimate: 17.5 ppm

RCR: 0.99

PROC 4/5/9/13/14: Exposure estimate: 15 ppm

RCR: 0.85

PROC 7 (automatisch): Exposure estimate: 12.5 ppm

RCR: 0.71

PROC 7 (manuell):

Exposure estimate: 7.5 ppm

RCR: 0.42 PROC 8a / 10:

Exposure estimate: 5 ppm

RCR: 0.28 PROC 8b:

Exposure estimate: 1.5 ppm

RCR: 0.08

**Environment** The calculated value is smaller than the PNEC.

Consumer Not relevant for this Exposure Scenario.

### SECTION 4: Guidance for downstream users

The exposure estimation was carried out in accordance with ECETOC TRA.

Version 3. http://www.ecetoc.org/tra

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/ Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/ Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

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## Annex: Exposure scenario 3

### SECTION 1: Title section

Short title of the exposure scenario Uses in Coatings - Professional

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

PROC19 Manual activities involving hand contact

#### Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

### Description of the activities / processes covered in the Exposure Scenario

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

### SECTION 2: Conditions of use affecting exposure

The usual precautionary measures should be adhered to in handling the chemicals.

**Duration and frequency** 8hrs (full working shift).

Worker

Frequency of use: 5 workdays/week.

Physical parameters

Physical state

Fluid

Vapour pressure: 0.5-10 kPa (20 °C)

Concentration of the substance in the mixture

Covers use of substance / product up to 100% (unless stated otherwise).

Used amount per time or activity

Regional use tonnage (tonnes/year): 5000, SU22 Annual site tonnage (tonnes/year): 10, SU22 Maximum daily site tonnage (kg/day): 27.4, SU22

Other operational conditions

Continuous release. Emissiondays /year: 365

Assumes use at not more than 20°C above ambient temperature (unless stated differently).

Assumes a good basic standard of occupational hygiene is implemented.

Other operational conditions affecting environmental exposure

Local freshwater dilution factor: 10 Local marine water dilution factor: 100

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025

Release fraction to air from process (initial release prior to RMM) / wide dispersive use (regional only): 98 %

Release fraction to wastewater from process (initial release prior to RMM) / wide dispersive use: 1 %. Release fraction to soil from process (initial release prior to RMM) / wide dispersive use (regional only): 1 %

#### Other operational conditions affecting worker exposure

Clean working place and equipment every day. Avoid splashing. Remove spilled product immediately. Keep container tightly closed in a cool place.

Avoid contact with the skin and eyes.

Other operational conditions affecting consumer exposure during the use of the product Not applicable.

#### Risk management measures

Ensure that personal protective measures are used at all activities.

Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.

#### Worker protection

Storage (PROC1 / PROC2):

Store substance within a closed system.

General exposures / Use (closed systems) PROC1 / PROC2 / PROC3:

Filling / preparation of equipment from drums or containers (Use in closed systems) PROC2:

Ensure material transfers are under containment or extract ventilation.

Preparation of material for application. Use in contained batch (PROC3):

Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).

Use drum pumps or carefully pour from container.

Film formation - air drying Indoor (PROC4):

Provide a good standard of general ventilation.

Provide extract ventilation to points where emissions (can) occur.

Avoid manual contact with wet work pieces.

Film formation - air drying Outdoors (PROC 4):

Ensure operation is undertaken outdoors. Avoid manual contact with wet work pieces. Clear spills immediately.

Avoid carrying out activities involving exposure for more than 1 hour(s).

Preparation of material for application Indoor PROC 5:

Provide a good standard of general ventilation (10 to 15 air changes per hour).

Controlled ventilation means air is supplied or removed by a powered fan.

Avoid carrying out activities involving exposure for more than 1 hour(s).

Preparation of material for application Outdoor (PROC 5):

Ensure operation is undertaken outdoors.

Avoid carrying out activities involving exposure for more than 1 hour(s).

Material transfers Drum/Batch transfer (Non-dedicated facility) PROC8a:

Material transfers Drum/batch transfers (Non-dedicated facility) PROC8b:

Material transfers Drum/batch transfers (dedicated facility) PROC8b:

Transfer via enclosed lines.

Clear transfer lines prior to de-coupling.

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Equipment cleaning and maintenance (Non-dedicated facility) PROC 8a:

Drain down system prior to equipment break-in or maintenance.

Avoid carrying out activities involving exposure for more than 4 hour(s).

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

Roller, spreader, flow application Indoor (PROC 10):

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

Wear a respirator conforming to EN140 with Type A filter or better.

Roller, spreader, flow application Outdoor (PROC 10):

Dipping, immersion and pouring Outdoor (PROC 13):

Ensure Operation is undertaken outdoors. Wear a respirator conforming to EN140 with Type A filter or better. Automate activity where possible.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

DD-Härter B05-901/67 for DD-Lackfarbe, Product name:

mixing rate 2:1

Date of printing: 07.11.2025

Spraying Manual (PROC 11):

Carry out in a vented booth or extracted enclosure.

Spraying (PROC 11, außen):

Ensure operation is undertaken outdoors.

Avoid carrying out activities involving exposure for more than 4 hour(s).

Wear a respirator conforming to EN140 with Type A filter or better.

Dipping, immersion and pouring Indoor (PROC 13):

Use local exhaustion at places where emission can occur.

Avoid carrying out activities involving exposure for more than 4 hour(s).

Laboratory activities (PROC15):

Handle substance within a predominantly closed system provided with extract ventilation.

Hand application - fingerpaints, pastels, adhesives PROC19 Indoor:

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

Limit the substance content in the product to 5%.

Hand application - fingerpaints, pastels, adhesives PROC19 Outdoor:

Ensure operation is undertaken outdoors.

Limit the substance content in the product to 5%.

Avoid carrying out activities involving exposure for more than 4 hour(s).

### Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

The employer must ensure that the necessary personal protective devices are available and applied accordingly to the instructions.

#### Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

## Personal protective measures

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

Do not inhale gases / fumes / aerosols.

Safety glasses

Measures for consumer protection Not relevant for this Exposure Scenario.

#### Environmental protection measures

#### Air

Treatment of air emissions is not required for the purposes of REACH compliance but may be needed to comply with other environmental legislation.

Treat air emission to provide a typical removal efficiency of (%): 0

#### Water

Sludge treatment: Incineration or in a landfill

Prevent discharge of undissolved substance to or recover from onsite wastewater.

Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%):

Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/day): 4600

Assumed domestic sewage treatment plant flow (m3/d): 2000

Soil Use bunds or dykes around storage facilities to prevent soil and water pollution in the event of a spill. Disposal measures

External treatment and disposal of waste should comply with applicable local and/or national regulations. External recovery and recycling of waste should comply with applicable local and/or national regulations.

Waste type Partially emptied and uncleaned packaging

**Notes** Disposal must be made according to official regulations.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



Worker (oral) No significant oral exposure.

Worker (dermal)

PROC 1:

Exposure estimate: 0.34 mg/kg/day

RCR: 0 PROC 2:

Exposure estimate: 0.14 mg/kg/day

RCR: 0 PROC 3 / 15:

Exposure estimate: 0.03 mg/kg/day

RCR: 0

PROC 4 (innen) / 8b:

Exposure estimate: 6.86 mg/kg/day

RCR: 0.04 PROC 4 (außen):

Exposure estimate: 1.37 mg/kg/day

RCR: 0.01 PROC 5 / 8a:

Exposure estimate: 13.71 mg/kg/day

RCR: 0.08 PROC 10:

Exposure estimate: 27.43 mg/kg/day

RCR: 0.15 PROC 11 (innen):

Exposure estimate: 2.14 mg/kg/day

RCR: 0.01

PROC 11 (außen):

Exposure estimate: 21.43 mg/kg/day

RCR: 0.12 PROC 13:

Exposure estimate: 0.69 mg/kg/day

RCR: 0 PROC 19:

Exposure estimate: 28.29 mg/kg/day

RCR: 0.16

Worker (inhalation)

PROC 1:

Exposure estimate: 0.1 ppm

RCR: 0.01 PROC 2:

Exposure estimate: 4 ppm

RCR: 0.23 PROC 3:

Exposure estimate: 7.5 ppm

RCR: 0.42 PROC 4 (innen):

Exposure estimate: 3.5 ppm

RCR: 0.2

PROC 4 + 10 + 13 (jew. außen): Exposure estimate: 7 ppm

RCR: 0.39

PROC 5 (innen) / 19 (innen): Exposure estimate: 6 ppm

RCR: 0.34



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025

PROC 5 (außen) / 8a: Exposure estimate: 14 ppm

RCR: 0.79 PROC 8b:

Exposure estimate: 15 ppm

RCR: 0.85

PROC 10 (innen):

Exposure estimate: 3 ppm

RCR: 0.17

PROC 11 (innen):

Exposure estimate: 5 ppm

RCR: 0.28

PROC 11 (außen):

Exposure estimate: 10.5 ppm

RCR: 0.59

PROC 13 (innen):

Exposure estimate: 12 ppm

RCR: 0.68 PROC 15:

Exposure estimate: 0.6 ppm

RCR: 0.03

PROC 19 (außen):

Exposure estimate: 8.4 ppm

RCR: 0.47

**Environment** The calculated value is smaller than the PNEC.

Consumer Not relevant for this Exposure Scenario.

### SECTION 4: Guidance for downstream users

The exposure estimation was carried out in accordance with ECETOC TRA.

Version 3. http://www.ecetoc.org/tra

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/ Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/ Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

DD-Härter B05-901/67 for DD-Lackfarbe, Product name:

mixing rate 2:1

Date of printing: 07.11.2025

2-methoxy-1-methylethylacetate (PMA)



### Annex: Exposure scenario 1

#### SECTION 1: Title section

Short title of the exposure scenario Formulation & (re)packing of substances and mixtures (Industrial) Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent

Environmental release category ERC2 Formulation into mixture

## Description of the activities / processes covered in the Exposure Scenario

Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

#### SECTION 2: Conditions of use affecting exposure

The usual precautionary measures should be adhered to in handling the chemicals.

**Duration and frequency** 8hrs (full working shift).

Worker

Frequency of use:

5 workdays/week.

**Environment** No exposure assessment presented for the environment.

Physical parameters

Physical state

Fluid

Vapour pressure: < 5 hPa (20 °C)

Concentration of the substance in the mixture Covers use of substance / product up to 100%

Used amount per time or activity

Regional use tonnage (tonnes/year): 5300, SU3 Annual site tonnage (tonnes/year): 5300, SU3 Maximum daily site tonnage (kg/day): 23000, SU3

Other operational conditions

Emission days / year: 225

Assumes use at not more than 20°C above ambient temperature (unless stated differently).

Assumes a good basic standard of occupational hygiene is implemented.

#### Other operational conditions affecting environmental exposure

Local freshwater dilution factor: 10

Local marine water dilution factor: 100

Release fraction to air from process (initial release prior to RMM) / wide dispersive use (regional only): 0.6%.

Release fraction to wastewater from process (initial release prior to RMM) / wide dispersive use: 0 %.

Release fraction to soil from process (initial release prior to RMM) / wide dispersive use (regional only): 0 %.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



#### Other operational conditions affecting worker exposure

Keep container tightly closed in a cool place.

Avoid contact with eyes.

Avoid contact with the skin.

# Other operational conditions affecting consumer exposure during the use of the product Not applicable.

Risk management measures Ensure that personal protective measures are used at all activities.

#### Worker protection

General exposures / Use (closed systems) PROC1 / PROC2 / PROC3:

General exposures. Continuous process with sample collection (closed systems) PROC2:

Film formation - force drying, stoving and other technologies (PROC 2):

Batch processes at elevated temperatures. Operation is carried out at elevated temperature (> 20°C above ambient temperature) PROC3:

General exposures / Use (open systems) PROC4:

General exposures / Use (open systems) Elevetad Temperature PROC4:

Preparation of material for application (PROC5):

Material transfers Drum/Batch transfer (Non-dedicated facility) PROC8a:

Filling of drums and small containers (PROC 9):

Production or preparation or articles by tabletting, compression, extrusion or pelletisation (PROC14):

Laboratory activities (PROC15):

No other specific measures identified.

Material transfers Drum/batch transfers (Non-dedicated facility) PROC8b:

Material transfers Drum/batch transfers (dedicated facility) PROC8b:

Transfer via enclosed lines.

Clear transfer lines prior to de-coupling.

Mixing operations (open systems) PROC5:

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

## Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

The employer must ensure that the necessary personal protective devices are available and applied accordingly to the instructions.

**Technical protective measures** Ensure that suitable extractors are available on processing machines **Personal protective measures** 

Detailed measures on hand protection according to Safety Data Sheet, section 8.

Do not inhale gases / fumes / aerosols.

Safety glasses

Measures for consumer protection Not relevant for this Exposure Scenario.

### Environmental protection measures

#### Air

Treatment of air emissions is not required for the purposes of REACH compliance but may be needed to comply with other environmental legislation.

#### Water

Sludge treatment: Incineration or in a landfill

Prevent discharge of undissolved substance to or recover from onsite wastewater.

Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%): 87.3

Assumed domestic sewage treatment plant flow (m3/d): 2000

Soil No special measures required.

#### Disposal measures

External treatment and disposal of waste should comply with applicable local and/or national regulations. External recovery and recycling of waste should comply with applicable local and/or national regulations.

Waste type Partially emptied and uncleaned packaging

Notes Disposal must be made according to official regulations.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



Worker (oral) No significant oral exposure.

Worker (dermal) PROC 1 / 3 / 15:

Exposure estimate: 0.34 mg/kg/day

RCR: < 0.01 PROC 2:

Exposure estimate: 1.37 mg/kg/day

RCR: 0.01 PROC 4 / 8b / 9:

Exposure estimate: 6.86 mg/kg/day

RCR: 0.04 PROC 5 / 8a:

Exposure estimate: 13.71 mg/kg/day

RCR: 0.09 PROC 14:

Exposure estimate: 3.43 mg/kg/day

RCR: 0.02

Worker (inhalation)

PROC 1:

Exposure estimate: 0.06 mg/m3

RCR: < 0.01 PROC 2:

Exposure estimate: 5.51 mg/m<sup>3</sup>

RCR: 0.02

PROC 2 (Schichtbild.):

Exposure estimate: 55.08 mg/m<sup>3</sup>

RCR: 0.2 PROC 3:

Exposure estimate: 16.53 mg/m<sup>3</sup>

RCR: 0.06

PROC 3 (erhöhte Temperatur): Exposure estimate: 137.71 mg/m³

RCR: 0.5 PROC 5:

Exposure estimate: 192.79 mg/m<sup>3</sup>

RCR: 0.7

PROC 4/8b/9/14/15:

Exposure estimate: 27.54 mg/m<sup>3</sup>

RCR: 0.1 PROC 8a:

Exposure estimate: 55.08 mg/m<sup>3</sup>

RCR: 0.2 **Environment** 

As no environmental hazard was identified no environmental -related exposure assessment and risk characterization was performed.

Consumer Not relevant for this Exposure Scenario.

#### SECTION 4: Guidance for downstream users

The exposure estimation was carried out in accordance with ECETOC TRA.

Version 3. http://www.ecetoc.org/tra

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/ Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/ Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



## **Annex: Exposure scenario 2**

#### SECTION 1: Title section

#### Short title of the exposure scenario

Uses in Coatings - Industrial Use in printing inks (industrial)

**Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites **Process category** 

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent

#### Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

## Description of the activities / processes covered in the Exposure Scenario

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

#### SECTION 2: Conditions of use affecting exposure

The usual precautionary measures should be adhered to in handling the chemicals.

**Duration and frequency** 8hrs (full working shift).

#### Worker

Frequency of use:

5 workdays/week.

#### Physical parameters

Physical state

Fluid

Vapour pressure: < 5 hPa (20 °C)

Concentration of the substance in the mixture Covers use of substance / product up to 100%

Used amount per time or activity

Regional use tonnage (tonnes/year): 53000, SU3 Annual site tonnage (tonnes/year): 13000, SU3 Maximum daily site tonnage (kg/day): 44000, SU3

Other operational conditions

Emission days / year: 300

Assumes use at not more than 20°C above ambient temperature (unless stated differently).

Assumes a good basic standard of occupational hygiene is implemented.

#### Other operational conditions affecting environmental exposure

Local freshwater dilution factor: 10 Local marine water dilution factor: 100

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025

Release fraction to air from process (initial release prior to RMM) / wide dispersive use (regional only): 2 %. Release fraction to wastewater from process (initial release prior to RMM) / wide dispersive use: 0 %. Release fraction to soil from process (initial release prior to RMM) / wide dispersive use (regional only): 0

#### Other operational conditions affecting worker exposure

Keep container tightly closed in a cool place.

Avoid contact with eyes.

Avoid contact with the skin.

## Other operational conditions affecting consumer exposure during the use of the product

Not applicable.

**Risk management measures** Ensure that personal protective measures are used at all activities. **Worker protection** 

General exposures / Use (closed systems) PROC1 / PROC2 / PROC3:

General exposures. Continuous process with sample collection (closed systems) PROC2:

Film formation - force drying, stoving and other technologies (closed systems).

Operation is carried out at elevated temperature (> 20°C above ambient temperature) PROC2:

General exposures / Use (open systems) PROC4:

General exposures / Use (open systems) Elevetad Temperature PROC4:

Material transfers Drum/Batch transfer (Non-dedicated facility) PROC8a:

Filling of drums and small containers (PROC 9):

Apply by Rolling or Brushing (PROC10):

Treatment by dipping and pouring (PROC13):

Production or preparation or articles by tabletting, compression, extrusion or pelletisation (PROC14):

Laboratory activities (PROC15):

No other specific measures identified.

Mixing operations (open systems) PROC5:

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Spraying (automatic/robotic) PROC7:

Carry out in a vented booth or extracted enclosure.

Spraying (PROC 7 (manuell)):

Carry out in a vented booth or extracted enclosure.

Or: Wear a respirator conforming to EN140 with Type A filter or better.

Cleaning with high pressure washers (PROC7):

Provide a good standard of general ventilation.

Avoid carrying out activities involving exposure for more than 4 hour(s).

Material transfers Drum/batch transfers (Non-dedicated facility) PROC8b:

Material transfers Drum/batch transfers (dedicated facility) PROC8b:

Transfer via enclosed lines.

Clear transfer lines prior to de-coupling.

### Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

The employer must ensure that the necessary personal protective devices are available and applied accordingly to the instructions.

**Technical protective measures** Ensure that suitable extractors are available on processing machines **Personal protective measures** 

Detailed measures on hand protection according to Safety Data Sheet, section 8.

Do not inhale gases / fumes / aerosols.

Safety glasses

Measures for consumer protection Not relevant for this Exposure Scenario.

#### Environmental protection measures

Air Treat air emission to provide a typical removal efficiency of (%): 98



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



Sludge treatment: Incineration or in a landfill

Prevent discharge of undissolved substance to or recover from onsite wastewater.

Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%):

87.3

Assumed domestic sewage treatment plant flow (m3/d): 2000

Soil No special measures required.

#### Disposal measures

External treatment and disposal of waste should comply with applicable local and/or national regulations. External recovery and recycling of waste should comply with applicable local and/or national regulations.

Waste type Partially emptied and uncleaned packaging

**Notes** Disposal must be made according to official regulations.

#### **SECTION 3: Exposure estimation**

Worker (oral) No significant oral exposure.

Worker (dermal) PROC 1/3/15:

Exposure estimate: 0.34 mg/kg/day

RCR: < 0.01 PROC 2:

Exposure estimate: 1.37 mg/kg/day

RCR: 0.01 PROC 4 / 8b / 9:

Exposure estimate: 6.86 mg/kg/day

RCR: 0.04 PROC 5 / 8a / 13:

Exposure estimate: 13.71 mg/kg/day

RCR: 0.09

PROC 7 (manuell):

Exposure estimate: 42.86 mg/kg/day

RCR: 0.28

PROC 7 (Hochdruck):

Exposure estimate: 8.57 mg/kg/day

RCR: 0.06

PROC 7 (automatisiert):

Exposure estimate: 2.14 mg/kg/day

RCR: 0.01 PROC 10:

Exposure estimate: 27.43 mg/kg/day

RCR: 0.18 PROC 14:

Exposure estimate: 3.43 mg/kg/day

RCR: 0.02

Worker (inhalation)

PROC 1:

Exposure estimate: 0.06 mg/m<sup>3</sup>

RCR: < 0.01 PROC 2:

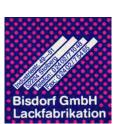
Exposure estimate: 5.51 mg/m<sup>3</sup>

RCR: 0.02

PROC 2 (Schichtbildung):

Exposure estimate: 55.08 mg/m<sup>3</sup>

RCR: 0.2



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025

PROC 3:

Exposure estimate: 16.53 mg/m<sup>3</sup>

RCR: 0.06

PROC 3 (erh. Temperatur):

Exposure estimate: 137.71 mg/m<sup>3</sup>

RCR: 0.5

PROC 4 / 7 (autom.) / 8b / 9 / 14 / 15: Exposure estimate: 27.54 mg/m<sup>3</sup>

RCR: 0.1 PROC 5:

Exposure estimate: 192.79 mg/m<sup>3</sup>

RCR: 0.7

PROC 7 (Hochdruck):

Exposure estimate: 231.35 mg/m<sup>3</sup>

RCR: 0.86

PROC 7 (manuell) / 8a / 10 / 13: Exposure estimate: 55.08 mg/m<sup>3</sup>

RCR: 0.2 **Environment** 

As no environmental hazard was identified no environmental -related exposure assessment and risk characterization was performed.

**Consumer** Not relevant for this Exposure Scenario.

#### SECTION 4: Guidance for downstream users

The exposure estimation was carried out in accordance with ECETOC TRA.

Version 3. http://www.ecetoc.org/tra

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/ Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/ Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



## n-butyl acetate

## **Annex: Exposure scenario 1**

#### SECTION 1: Title section

#### Short title of the exposure scenario

Use in formulation. (Industrial)

Formulation & (re)packing of substances and mixtures (Industrial)

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites Process category

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC15 Use as laboratory reagent

Environmental release category ERC2 Formulation into mixture

## Description of the activities / processes covered in the Exposure Scenario

Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

## SECTION 2: Conditions of use affecting exposure

The usual precautionary measures should be adhered to in handling the chemicals.

Duration and frequency 8hrs (full working shift).

Worker

Frequency of use:

5 workdays/week.

**Environment** The product may not be released into the environment without control.

Physical parameters

Physical state

Fluid

Vapour pressure: 11.6 hPa (20 °C)

Concentration of the substance in the mixture Covers use of substance / product up to 100%

Other operational conditions

Emission days / year: 225

Assumes a good basic standard of occupational hygiene is implemented.

Assumes use at ambient temperature (unless stated differently).

## Other operational conditions affecting environmental exposure

Local freshwater dilution factor: 10 Local marine water dilution factor: 100

Flow rate of receiving surface water: 18000 m³/day.

Release fraction to air from process (initial release prior to RMM) / wide dispersive use (regional only): 3.6

%.

Release fraction to wastewater from process (initial release prior to RMM) / wide dispersive use: 0 %. Release fraction to soil from process (initial release prior to RMM) / wide dispersive use (regional only): 0

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



#### Other operational conditions affecting worker exposure

Clean working place and equipment every day. Avoid splashing. Remove spilled product immediately.

Keep container tightly closed in a cool place.

Avoid contact with the skin and eyes.

Other operational conditions affecting consumer exposure during the use of the product Not applicable.

### Risk management measures

Ensure that personal protective measures are used at all activities.

Wear suitable gloves tested to EN374 during the activities where excessive skin contact is possible. Eye Protection – suitable eye protection should be worn when handling product if there is a risk of splashing.

#### Worker protection

General exposures / Use (closed systems) PROC1 / PROC2 / PROC3:

Material transfers Drum/batch transfers (Non-dedicated facility) PROC8b:

Material transfers Drum/batch transfers (dedicated facility) PROC8b:

Laboratory activities (PROC15):

No other specific measures identified.

Mixing operations (open systems) PROC5:

Material transfers Drum/Batch transfer (Non-dedicated facility) PROC8a:

Filling of drums and small containers (PROC 9):

Small scale weighing PROC9:

Use local exhaustion at places where emission can occur.

#### Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

The employer must ensure that the necessary personal protective devices are available and applied accordingly to the instructions.

## Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

#### Personal protective measures

Detailed measures on hand protection according to Safety Data Sheet, section 8.

Do not inhale gases / fumes / aerosols.

Measures for consumer protection Not relevant for this Exposure Scenario.

#### Environmental protection measures

### Air

Treatment of air emissions is not required for the purposes of REACH compliance but may be needed to comply with other environmental legislation.

#### Water

Size of sewage treatment plant (m³/d): 2000

Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/day): 119631

Prevent discharge of undissolved substance to or recover from onsite wastewater.

**Soil** No special measures required.

### Disposal measures

... Must not be disposed of with household waste. Do not allow to reach sewage system.

Disposal must be made according to official regulations.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



#### **SECTION 3: Exposure estimation**

Worker (oral) No significant oral exposure.

Worker (dermal) PROC 2, 5, 8a, 8b:

Exposure estimate: 1.3714 mg/kg/day

RCR: 0.124675 PROC 3, 9:

Exposure estimate: 0.6857 mg/kg/day

RCR: 0.06234 PROC 15:

Exposure estimate: 0.3429 mg/kg/day

RCR: 0.03117 **Worker (inhalation)** PROC 2, 5, 8a, 9:

Exposure estimate: 24.2 mg/m<sup>3</sup>

RCR: 0.080665 PROC 3, 15:

Exposure estimate: 48.3993 mg/m<sup>3</sup>

RCR: 0.16133 PROC 8b:

Exposure estimate: 120.9982 mg/m<sup>3</sup>

RCR: 0.40333
Environment

Highest estimated Values for ERC2: Risc characterisation ratio (RCR): 0.2229

Consumer Not relevant for this Exposure Scenario.

## SECTION 4: Guidance for downstream users

The exposure estimation was carried out in accordance with ECETOC TRA.

Version 3. http://www.ecetoc.org/tra

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/ Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/ Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



## Annex: Exposure scenario 2

#### SECTION 1: Title section

Short title of the exposure scenario Uses in Coatings - Industrial

**Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites **Process category** 

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

### Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

## Description of the activities / processes covered in the Exposure Scenario

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

#### SECTION 2: Conditions of use affecting exposure

The usual precautionary measures should be adhered to in handling the chemicals.

Duration and frequency 8hrs (full working shift).

### Worker

Frequency of use:

5 workdays/week.

Environment The product may not be released into the environment without control.

## Physical parameters

#### Physical state

Fluid

Vapour pressure: 11.6 hPa (20 °C)

Concentration of the substance in the mixture Covers use of substance / product up to 100%

Used amount per time or activity Annual site tonnage (tons per year): 43000

## Other operational conditions

Emission days / year: 225

Assumes a good basic standard of occupational hygiene is implemented.

Assumes use at ambient temperature (unless stated differently).

## Other operational conditions affecting environmental exposure

Local freshwater dilution factor: 10

Local marine water dilution factor: 100

Flow rate of receiving surface water: 18000 m³/day.

Release fraction to air from process (initial release prior to RMM) / wide dispersive use (regional only): 0.8 %

Release fraction to wastewater from process (initial release prior to RMM) / wide dispersive use: 2 %. Release fraction to soil from process (initial release prior to RMM) / wide dispersive use (regional only): 0 %.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



#### Other operational conditions affecting worker exposure

Clean working place and equipment every day. Avoid splashing. Remove spilled product immediately.

Keep container tightly closed in a cool place.

Avoid contact with the skin and eyes.

Other operational conditions affecting consumer exposure during the use of the product Not applicable.

#### Risk management measures

Ensure that personal protective measures are used at all activities.

Wear suitable gloves tested to EN374 during the activities where excessive skin contact is possible. Eye Protection – suitable eye protection should be worn when handling product if there is a risk of splashing.

#### Worker protection

General exposures / Use (closed systems) PROC1 / PROC2 / PROC3:

General exposures / Use (open systems) PROC4:

Mixing operations (open systems) PROC5:

No other specific measures identified.

Spraying PROC7:

Daily cleaning of equipment and work area. It must be ensured that the work is carried out outside the breathing zone of the worker (head-product distance greater than 1m). Regular inspection and maintenance of equipment and machinery.

Carry out in a vented booth or extracted enclosure.

Material transfers Drum/Batch transfer (Non-dedicated facility) PROC8a:

Use local exhaustion at places where emission can occur.

Material transfers Drum/batch transfers (Non-dedicated facility) PROC8b:

Material transfers Drum/batch transfers (dedicated facility) PROC8b:

Transfer via enclosed lines.

Clear transfer lines prior to de-coupling.

Apply by Rolling or Brushing (PROC10):

Treatment by dipping and pouring (PROC13):

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

Use of a local source exhaust with adequate effectiveness.

## Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

The employer must ensure that the necessary personal protective devices are available and applied accordingly to the instructions.

## Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

#### Personal protective measures

Detailed measures on hand protection according to Safety Data Sheet, section 8.

Do not inhale gases / fumes / aerosols.

Measures for consumer protection Not relevant for this Exposure Scenario.

#### Environmental protection measures

## Air

Treatment of air emissions is not required for the purposes of REACH compliance but may be needed to comply with other environmental legislation.

## Water

Size of sewage treatment plant (m³/d): 2000

Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/day): 1080.7

Prevent discharge of undissolved substance to or recover from onsite wastewater.

Soil No special measures required.

#### Disposal measures

Must not be disposed of with household waste. Do not allow to reach sewage system.

Disposal must be made according to official regulations.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



Worker (oral) No significant oral exposure.

Worker (dermal)

PROC 1:

Exposure estimate: 0.0343 mg/kg/day

RCR: 0.003117 PROC 2, 5, 8a, 8b, 13:

Exposure estimate: 1.3714 mg/kg/day

RCR: 0.124675 PROC 3, 4:

Exposure estimate: 0.6857 mg/kg/day

RCR: 0.06234 PROC 7:

Exposure estimate: 4.2857 mg/kg/day

RCR: 0.3896 PROC 10:

Exposure estimate: 2.7429 mg/kg/day

RCR: 0.24935 PROC 15:

Exposure estimate: 0.3429 mg/kg/day

RCR: 0.03117
Worker (inhalation)

PROC 1:

Exposure estimate: 0.0484 mg/m<sup>3</sup>

RCR: 0.000161 PROC 2, 5, 8a, 10, 13:

Exposure estimate: 24.2 mg/m<sup>3</sup>

RCR: 0.080665 PROC 3, 15:

Exposure estimate: 48.3993 mg/m<sup>3</sup>

RCR: 0.16133 PROC 4:

Exposure estimate: 96.7986 mg/m<sup>3</sup>

RCR: 0.3227 PROC 7:

Exposure estimate: 0.0001 mg/m<sup>3</sup>

RCR: 0 PROC 8b:

Exposure estimate: 120.9982 mg/m<sup>3</sup>

RCR: 0.40333
Environment

Highest estimated Values for ERC4: Risc characterisation ratio (RCR): 0.9254

Consumer Not relevant for this Exposure Scenario.

### SECTION 4: Guidance for downstream users

The exposure estimation was carried out in accordance with ECETOC TRA.

Version 3. http://www.ecetoc.org/tra

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/ Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/ Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



## **Annex: Exposure scenario 3**

#### **SECTION 1: Title section**

Short title of the exposure scenario Uses in Coatings - Professional

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

PROC19 Manual activities involving hand contact

### Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

## Description of the activities / processes covered in the Exposure Scenario

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

## SECTION 2: Conditions of use affecting exposure

The usual precautionary measures should be adhered to in handling the chemicals.

Duration and frequency 8hrs (full working shift).

Worker

Frequency of use:

5 workdays/week.

**Environment** The product may not be released into the environment without control.

Physical parameters

Physical state

Fluid

Vapour pressure: 11.6 hPa (20 °C)

Concentration of the substance in the mixture Covers use of substance / product up to 100%

Used amount per time or activity Annual site tonnage (tons per year): 2000

Other operational conditions

Emission days / year: 225

Assumes a good basic standard of occupational hygiene is implemented.

Assumes use at ambient temperature (unless stated differently).

Other operational conditions affecting environmental exposure

Local freshwater dilution factor: 10 Local marine water dilution factor: 100

Flow rate of receiving surface water: 18000 m³/day.

Release fraction to air from process (initial release prior to RMM) / wide dispersive use (regional only): 99

%.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025

Release fraction to wastewater from process (initial release prior to RMM) / wide dispersive use: 1 %. Release fraction to soil from process (initial release prior to RMM) / wide dispersive use (regional only): 0 %



Clean working place and equipment every day. Avoid splashing. Remove spilled product immediately.

Keep container tightly closed in a cool place.

Avoid contact with the skin and eyes.

Other operational conditions affecting consumer exposure during the use of the product Not applicable.

## Risk management measures

Ensure that personal protective measures are used at all activities.

Wear suitable gloves tested to EN374 during the activities where excessive skin contact is possible. Eye Protection – suitable eye protection should be worn when handling product if there is a risk of splashing.

## Worker protection

General exposures / Use (closed systems) PROC1 / PROC2 / PROC3:

General exposures / Use (open systems) PROC4:

Mixing operations (open systems) PROC5:

Laboratory activities (PROC15):

No other specific measures identified.

Material transfers Drum/Batch transfer (Non-dedicated facility) PROC8a:

Limit the substance content in the product to 25%.

Use local exhaustion at places where emission can occur.

Material transfers Drum/batch transfers (Non-dedicated facility) PROC8b:

Material transfers Drum/batch transfers (dedicated facility) PROC8b:

Transfer via enclosed lines.

Clear transfer lines prior to de-coupling.

Apply by Rolling or Brushing (PROC10):

Treatment by dipping and pouring (PROC13):

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

Spraying (PROC 11):

Daily cleaning of equipment and work area. It must be ensured that the work is carried out outside the breathing zone of the worker (head-product distance greater than 1m). Regular inspection and maintenance of equipment and machinery.

Carry out in a vented booth or extracted enclosure.

Manual Spraying Indoor (PROC11) bis 45%:

Limit the substance content in the product to 45%.

It must be ensured that manual activity is minimized. Avoid frequent and direct contact with the substance. Checks to verify the correct application of risk minimization measures and Compliance with the conditions of use are established. Daily cleaning of equipment and work area. Regular inspection and maintenance of equipment and machinery. Avoid splashes. Make sure doors and windows are open (general ventilation). Use of a local source exhaust with adequate effectiveness.

Or:

Wearing a half mask with filter type P2L or better.

Hand application - fingerpaints, pastels, adhesives. PROC19:

Use local exhaustion at places where emission can occur.

Avoid carrying out activities involving exposure for more than 4 hour(s).

Or: Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Avoid carrying out activities involving exposure for more than 1 hour(s).

### Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

The employer must ensure that the necessary personal protective devices are available and applied accordingly to the instructions.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

#### Personal protective measures

Detailed measures on hand protection according to Safety Data Sheet, section 8.

Do not inhale gases / fumes / aerosols.

Measures for consumer protection Not relevant for this Exposure Scenario.

### Environmental protection measures

Air

Treatment of air emissions is not required for the purposes of REACH compliance but may be needed to comply with other environmental legislation.

Water

Size of sewage treatment plant (m³/d): 2000

Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal

(kg/day): 1934.6

Prevent discharge of undissolved substance to or recover from onsite wastewater.

Soil No special measures required.

## Disposal measures

Must not be disposed of with household waste. Do not allow to reach sewage system.

Disposal must be made according to official regulations.

### SECTION 3: Exposure estimation

Worker (oral) No significant oral exposure.

Worker (dermal)

PROC 1:

Exposure estimate: 0.0343 mg/kg/day

RCR: 0.003117

PROC 2, 5, 8a, 8b, 13:

Exposure estimate: 1.3714 mg/kg/day

RCR: 0.124675 PROC 3, 4:

Exposure estimate: 0.6857 mg/kg/day

RCR: 0.06234 PROC 10:

Exposure estimate: 2.7429 mg/kg/day

RCR: 0.24935 PROC 11 (Kabine):

Exposure estimate: 10.7143 mg/kg/day

RCR: 0.974

PROC 11 (Absaugung / Maske): Exposure estimate: 4.8214 mg/kg/day

RCR: 0.4383 PROC 15:

Exposure estimate: 0.3429 mg/kg/day

RCR: 0.03117

PROC 19 (Absaug., 4h):

Exposure estimate: 8.4857 mg/kg/day

RCR: 0.77143 PROC 19 (Belüft., 1h):

Exposure estimate: 2.8286 mg/kg/day

RCR: 0.2571



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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mixing rate 2:1

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PROC 1:

Exposure estimate: 0.0484 mg/m<sup>3</sup>

RCR: 0.000161 PROC 2, 5, 8a:

Exposure estimate: 24.2 mg/m<sup>3</sup>

RCR: 0.080665 PROC 3, 15:

Exposure estimate: 48.3993 mg/m<sup>3</sup>

RCR: 0.16133 PROC 4:

Exposure estimate: 96.7986 mg/m<sup>3</sup>

RCR: 0.3227 PROC 8b:

Exposure estimate: 120.9982 mg/m<sup>3</sup>

RCR: 0.40333 PROC 11 (Kabine):

Exposure estimate: 0.0001 mg/m<sup>3</sup>

RCR: 0

PROC 11 (Absaugung):

Exposure estimate: 153 mg/m<sup>3</sup>

RCR: 0.51

PROC 11 (Maske):

Exposure estimate: 116 mg/m3

RCR: 0.3867

PROC 10, 13, 19 (Belüft., 1h): Exposure estimate: 145.1979 mg/m³

RCR: 0.484

PROC 19 (Absaug., 4h):

Exposure estimate: 67.759 mg/m<sup>3</sup>

RCR: 0.22586 Environment

Highest estimated Values for ERC8a, 8d: Risc characterisation ratio (RCR): 0.012923

**Consumer** Not relevant for this Exposure Scenario.

#### SECTION 4: Guidance for downstream users

The exposure estimation was carried out in accordance with ECETOC TRA.

Version 3. http://www.ecetoc.org/tra

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/ Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/ Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



## aromatic polyisocyanate

## **Annex: Exposure scenario 1**

### 1. Short title of Exposure Scenario: - Use in coatings: Industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in preparations

at industrial sites

Process category : PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled

exposure

**PROC3:** Use in closed batch process (synthesis or formulation) **PROC4:** Use in batch and other process (synthesis) where opportunity

for exposure arises

**PROC5:** Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

PROC7: Industrial spraying

**PROC8a:** Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated

facilities

PROC8b: Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at dedicated facilities

PROC10: Roller application or brushing

**PROC13:** Treatment of articles by dipping and pouring **PROC14:** Production of preparations or articles by tabletting,

compression, extrusion, pelletisation **PROC15:** Use as laboratory reagent

Environmental release category : ERC4: Industrial use of processing aids in processes and products,

not becoming part of articles

Further information : Only the uses defined in the short title and the use descriptors listed

above are regarded as safe/covered within this Exposure Scenario. In case of mixtures the other chapters may also contain additional information about further uses that are not safe/covered within this

scenario

#### 2.1 Contributing scenario controlling worker exposure for:

PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC14, PROC15[Xylene isomer mixture (with up to 20 % Ethylbenzene)]

- Use in coatings: Industrial

#### **Product characteristics**

Concentration of the Substance in Mixture/Article

Remarks : Covers the percentage of the substance in the product up to 100 %

(unless stated differently).

Vapour pressure : > 10 kPa
Physical Form (at time of use) : Liquid substance

Frequency and duration of use

Daily exposure : 8 hours/day

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

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#### Other operational conditions affecting workers exposure

Remarks : Assumes use at not more than 20°C above ambient temperature. Film

formation - force drying (50 - 100 °C)

Remarks : Assumes a good basic standard of occupational hygiene is

implemented.

#### **Technical conditions and measures**

## General exposures, (closed systems), with sample collection, use in contained system

Handle substance within a closed system.

#### Film formation - force drying (50 - 100 °C)

Handle substance within a closed system. Provide extraction ventilation at points where emissions occur.

#### Film formation - air drying

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

#### **Bulk transfers**

Ensure material transfers are under containment or extract ventilation.

## Roller, spreader, flow application

Provide extraction ventilation at points where emissions occur.

#### Drum/batch transfers, Material transfers, Transfer from/pouring from containers

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

#### **Material transfers**

Ensure material transfers are under containment or extract ventilation.

#### **Equipment cleaning and maintenance**

Drain down and flush system prior to equipment opening or maintenance.

### Storage, with occasional controlled exposure

Store substance within a closed system. Handle substance within a closed system.

#### PROC1: Use in closed process, no likelihood of exposure

Handle substance within a closed system.

### PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact): General exposures, (closed systems)

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Handle substance within a closed system.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025

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PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact): Preparation of material for application, (open systems)

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

PROC7: Industrial spraying: Automatic

Operation must be performed in a vented cabin with a laminar air flow

PROC7: Industrial spraying: Manual

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

PROC13: Treatment of articles by dipping and pouring: Dipping, immersion and pouring

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletisation

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid all skin contact with product, clean up contamination/spills as soon as they occur. Wear gloves (tested to EN374) if hand contamination likely, wash off any skin contamination immediately. Provide basic employee training to prevent / minimize exposures and to report any skin problems that may develop. Clear up spills immediately and dispose of waste safely. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.

These general measures are mandatory for all contributing scenarios. Additional measures are specific for the following contributing scenarios:

PROC7: Industrial spraying: Manual

Wear a respirator conforming to EN140 with Type A filter or better.

#### 3. Exposure estimation and reference to its source

#### Workers

Based on the applied RMMs the risk towards humans and the environment is sufficiently controlled (RCR  $\leq$  1).

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterisation ratio (Exposure value/DNEL)
2.1 Not specified.	ECETOC TRA			Not specified.	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: DD-Härter B05-901/67 for DD-Lackfarbe,

mixing rate 2:1

Date of printing: 07.11.2025



# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

The risk management measures given in this exposure scenario apply to the specified substance in a concentration as indicated in the scenario. The concentration of the substance in the product may differ. A downstream user should evaluate if the risk management measures may be adapted accordingly.

## Xylene isomer mixture (with up to 20 % Ethylbenzene)

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

The necessary separation efficiency for sewage can be reached by the application of on-site technology, either on its own or in combination The necessary separation efficiency for air can be reached by the application of on-site technology, either on its own or in combination

Detailed information on scaling and control techniques refer to SpERC data sheet

(http://cefic.org/en/reach-for-industries-libraries.html

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## Annex: Exposure scenario 2

#### 1. Short title of Exposure Scenario: - Use in coatings: Professional

Main User Groups : SU 22: Professional uses: Public domain (administration, education,

entertainment, services, craftsmen)

Process category : PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled

exposure

**PROC3:** Use in closed batch process (synthesis or formulation) **PROC4:** Use in batch and other process (synthesis) where opportunity

for exposure arises

**PROC5:** Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) **PROC8a:** Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated

facilities

PROC8b: Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at dedicated facilities

**PROC10:** Roller application or brushing **PROC11:** Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

Environmental release category : **ERC8a:** Wide dispersive indoor use of processing aids in open

systems

ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a

matrix

ERC8d: Wide dispersive outdoor use of processing aids in open

systems

**ERC8f:** Wide dispersive outdoor use resulting in inclusion into or onto

a matrix

Further information : Only the uses defined in the short title and the use descriptors listed

above are regarded as safe/covered within this Exposure Scenario. In case of mixtures the other chapters may also contain additional information about further uses that are not safe/covered within this

scenario.

### 2.1 Contributing scenario controlling worker exposure for:

PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15 [Xylene isomer mixture (with up to 20 % Ethylbenzene)]

- Use in coatings: Professional

#### **Product characteristics**

Concentration of the Substance in Mixture/Article

Remarks : Covers the percentage of the substance in the product up to 100 %

(unless stated differently).

Vapour pressure : 0,5 - 10 kPa Physical Form (at time of use) : Liquid substance

Frequency and duration of use

Daily exposure : 8 hours/day

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Remarks : Exceptions: Preparation of the material (indoor + outdoor), Film

formation (outdoor): < 1 h/day; PROC 11 (outdoor), PROC 13 (indoor), PROC 19 (outdoor), Equipment cleaning and maintenance: < 4 h/day

#### Other operational conditions affecting workers exposure

Remarks : Assumes use at not more than 20°C above ambient temperature. Remarks : Assumes a good basic standard of occupational hygiene is

implemented

implemented.

#### Technical conditions and measures

#### General exposures, (closed systems)

Handle substance within a closed system. Ensure material transfers are under containment or extract ventilation.

#### Filling/ preparation of equipment from drums or containers.

Handle substance within a closed system. Ensure material transfers are under containment or extract ventilation.

#### General exposures, (closed systems), use in contained system

Handle substance within a closed system. Ensure material transfers are under containment or extract ventilation.

#### Preparation of material for application

Handle substance within a closed system. Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

## Preparation of material for application, Indoor use

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

#### Preparation of material for application, Outdoor use

Ensure operation is undertaken outdoors.

### Film formation - air drying, Outdoor use

Ensure operation is undertaken outdoors.

### Film formation - air drying, Indoor use

Provide extraction ventilation at points where emissions occur. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

#### Material transfers, Drum/batch transfers

Transfer via enclosed lines. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

## Roller, spreader, flow application, Indoor use

Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).



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#### Roller, spreader, flow application, Outdoor use

Ensure operation is undertaken outdoors.

#### **Equipment cleaning and maintenance**

Drain down and flush system prior to equipment opening or maintenance.

### Storage, with occasional controlled exposure

Store substance within a closed system. Handle substance within a closed system. Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

#### PROC11: Non industrial spraying: Manual, Indoor use

Carry out in a vented booth or extracted enclosure.

#### PROC11: Non industrial spraying: Manual, Outdoor use

Ensure operation is undertaken outdoors.

#### PROC13: Treatment of articles by dipping and pouring: Dipping, immersion and pouring, Indoor use

Provide extraction ventilation at points where emissions occur.

#### PROC13: Treatment of articles by dipping and pouring: Dipping, immersion and pouring, Outdoor use

Ensure operation is undertaken outdoors.

## PROC15: Use as laboratory reagent

Handle in a fume cupboard or under extract ventilation.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid all skin contact with product, clean up contamination/spills as soon as they occur. Wear gloves (tested to EN374) if hand contamination likely, wash off any skin contamination immediately. Provide basic employee training to prevent / minimize exposures and to report any skin problems that may develop. Clear up spills immediately and dispose of waste safely. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.

These general measures are mandatory for all contributing scenarios. Additional measures are specific for the following contributing scenarios:

## Film formation - air drying, Outdoor use

Wear suitable gloves tested to EN374.

#### Roller, spreader, flow application, Indoor use

Wear a respirator conforming to EN140 with Type A filter or better.

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Wear a respirator conforming to EN140 with Type A filter or better.

PROC11: Non industrial spraying: Manual, Outdoor use

Wear a respirator conforming to EN140 with Type A filter or better. Wear suitable gloves tested to EN374.

PROC13: Treatment of articles by dipping and pouring: Dipping, immersion and pouring, Outdoor use

Wear a respirator conforming to EN140 with Type A filter or better.

#### 3. Exposure estimation and reference to its source

Contrib Scen	0	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterisation ratio (Exposure value/DNEL)
2.1 Not spe	cified.	ECETOC TRA			Not specified.	

#### Workers

Based on the applied RMMs the risk towards humans and the environment is sufficiently controlled (RCR ≤ 1).

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### Xylene isomer mixture (with up to 20 % Ethylbenzene)

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