

SAFETY DATA SHEET

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



Product name: 2K-EP Zwischenanstrich, mixing rate 8:1
Date of printing: 02.10.2023

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

1.1 Product identifier

Product name: 2K-EP Zwischenanstrich, mixing rate 8:1
Unique Formula Identifier (UFI-Code): 0D40-000U-900D-KJW6
Product type: epoxy paint (base for multi-component product)

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: 02.10.2023
Date of previous issue: 01.10.2021

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
3.2	skin corrosion/irritation	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	Eye Irrit. 2	H319
3.4S	skin sensitization	Skin Sens. 1	H317
4.1C	hazardous to the aquatic environment - chronic hazard	Aquatic Chronic 2	H411

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.
H411 - Toxic to aquatic life with long lasting effects.
EUH066 - Repeated exposure may cause skin dryness or cracking.
EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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: Contains epoxy constituents. May produce an allergic reaction.

Indication at Labelling:

The pictogram GHS 02 (flame) and GHS 09 (environment) can according GHS/CLP Art. 33 (3) substituted to label of ADR. Exempted from the labeling (environment) in accordance with 5.2.1.8.1 (ADR) are single packagings and "combination packagings" where such single packagings or inner packagings of such combination packagings have: a quantity of 5 l or less for liquids.

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.

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.

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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)	Type
xylene (mixture of isomers)	REACH: 01-2119488216-32 CAS: 1330-20-7 EG: 215-535-7	5-10	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	C [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]
solvent naphtha (petroleum), light arom.	REACH: 01-2119455851-35 CAS: *64742-95-6 EG: 265-199-0 M-Faktor: 1	1-5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 2, H411	P [1] [2]
1-methoxy-2-propanol (PM)	REACH: 01-2119457435-35 CAS: 107-98-2 EG: 203-539-1	1-5	Flam. Liq. 3, H226 STOT SE 3, H336	- [1] [2]
n-butyl acetate	REACH: 01-2119485493-29 CAS: 123-86-4 EG: 204-658-1	1-5	Flam. Liq. 3, H226 STOT SE 3, H336	- [1]
bisphenol A- (epichlorhydrin) epoxy resin MW=< 700	REACH: 01-2119456619-26 CAS: 25068-38-6 EG: 500-033-5	25-35	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	- [1]
trizinc bis(orthophosphate)	REACH: 01-2119485044-40 (90%) 01-2119490076-36 (10%) CAS: 7779-90-0 EG: 231-944-3	<5	Mixture containing 90% of Zinc Phosphate and 10% of a non hazardous additive. This Mixture is not subjected to classification and labelling (see chapter 12).	[2]
titanium dioxide (note 10)	REACH: 01-2119489379-17 CAS: 13463-67-7 EG: 236-675-5	<20	Carc. 2, H351	[1]

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] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance does not meet the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

[5] Substance of equivalent conce.

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

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Additional information:

* The substance contains less than 0.1% benzene. Classification as a carcinogen or germ cell mutagen is not applicable (Note P of the EC List of Substances / Annex VI of EC Regulation 1272/2008).

Note 10 (EU 2020/217): The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

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.

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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.

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.

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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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Product/ingredient name	CAS-Nr.	Notation	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	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
solvent naphtha (petroleum), light arom.	64742-95-6		IOLEV	25	120			2017/164/EU
1-methoxy-2-propanol (PM)	107-98-2		IOLEV	100	375	150	568	2017/164/EU
n-butyl acetate	123-86-4	skin	MAK	2	11	4	22	DFG/GER
trizinc bis(orthophosphate)	7779-90-0		AGW		6			TRGS 900/GER
titanium dioxide	13463-67-7	i	IOLEV		10		20	2017/164/EU
titanium dioxide	13463-67-7	r	IOLEV		1,25		2,4	2017/164/EU

Notation

i Inhalable fraction

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

r Respirable fraction

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

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)
Inhalation	DNEL (population)	108 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	77 mg/m ³ (Long-term - systemic effects)
		289 mg/m ³ (Acute - systemic and local effects)
	DNEL (population)	14,8 mg/m ³ (Long-term - systemic effects)
		174 mg/m ³ (Acute - systemic and local effects)

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Product/ingredient name		
ethylbenzene		
Dermal	DNEL (worker)	180 mg/kg bw/day (Long-term - systemic effects)
Inhalation	DNEL (worker)	77 mg/m ³ (Long-term - systemic effects)
		289 mg/m ³ (Acute - systemic and local effects)

Product/ingredient name		
solvent naphtha (petroleum), light arom.		
Oral	DNEL (population)	11 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	25 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	11 mg/kg bw/day (Long-term - systemic effects)
Inhalation	DNEL (worker)	150 mg/m ³ (Long-term - systemic effects)
	DNEL (population)	32 mg/m ³ (Long-term - systemic effects)

Product/ingredient name		
1-methoxy-2-propanol (PM)		
Oral	DNEL (population)	3,3 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	183 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	78 mg/kg bw/day (Long-term - systemic effects)
Inhalation	DNEL (worker)	553,5 mg/m ³ (Acute - local effects)
		369 mg/m ³ (Long-term - systemic effects)
	DNEL (population)	43,9 mg/m ³ (Long-term - systemic effects)

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/m ³ (Acute - local effects)
		300 mg/m ³ (Long-term - systemic effects)
	DNEL (population)	300 mg/m ³ (Acute - local effects)
		35,7 mg/m ³ (Long-term - systemic effects)

Product/ingredient name		
bisphenol A-(epichlorhydrin) epoxy resin MW=< 700		
Oral	DNEL (population)	0,75 mg/kg bw/day (Long-term - systemic and local effects)
Dermal	DNEL (worker)	8,3 mg/kg bw/day (Long-term - systemic and local effects)
Inhalation	DNEL (population)	3,6 mg/kg bw/day (Long-term - systemic and local effects)
	DNEL (worker)	12,3 mg/m ³ (Long-term - systemic and local effects)
	DNEL (population)	0,75 mg/m ³ (Long-term - systemic and local effects)

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Product/ingredient name		
trizinc bis(orthophosphate)		
Inhalation	DNEL (worker)	5 mg/m ³ (Long-term - systemic effects)

Product/ingredient name		
titanium dioxide		
Inhalation	DNEL (worker)	10 mg/m ³ Acute - local effects
Oral	DNEL (population)	700 mg/kg bw/day (Long-term - systemic effects)

PNECs

Product/ingredient name	
xylene (mixture of isomers)	
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	
1-methoxy-2-propanol (PM)	
PNEC aqua	10 mg/l (fresh water) 1 mg/l (marine water)
PNEC	100 mg/l (STP (sewage treatment plant)) 4,59 mg/kg dw (soil)
PNEC sediment	52,3 mg/kg dw (fresh water) 5,2 mg/kg dw (marine water)

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)

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Product/ingredient name	
bisphenol A-(epichlorhydrin) epoxy resin MW=< 700	
PNEC aqua	3 µg/l (fresh water) 0,3 µg/l (marine water)
PNEC	20 mg/l (STP (sewage treatment plant)) 10 mg/kg dw (soil)
PNEC sediment	0,5 mg/kg dw (fresh water) 0,5 mg/kg dw (marine water)

Product/ingredient name	
trizinc bis(orthophosphate)	
PNEC aqua	20,6 µg/l (fresh water) 6,1 µg/l (marine water)
PNEC	52 µg/l (STP (sewage treatment plant)) 106,8 mg/kg dw (soil)
PNEC sediment	235,6 mg/kg mg/kg dw (fresh water) 113 mg/kg dw (marine water)

Product/ingredient name	
titanium dioxide	
PNEC aqua	0,127 mg/l (fresh water) >1 mg/l (marine water)
PNEC	>100 mg/l (STP (sewage treatment plant)) >100 mg/kg dw (soil)
PNEC sediment	>100 mg/kg dw (fresh water) >1000 mg/kg dw (marine water)

(CAS 64742-95-6) - Substance is a hydrocarbon with a complex, unknown or variable composition. Conventional methods of deriving. PNECs are not appropriate and it is not possible to identify a single representative PNEC for such substances.

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 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

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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.

Environmental exposure controls:

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: light grey ~RAL 7035

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	1 %(Vol) 7 %(Vol)
Oxidizing properties	Not determined
Vapour pressure	10 hPa (20 °C)
Density	~1,63 g/cm ³ (20 °C)
Vapor density	Not determined

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Parameter	
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:	structured viscous
Solvent separation test	< 3% (20°C)

9.2. Other information

No additional information.

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	-
ethylbenzene	LD50 Oral	Rat	4300 mg/kg	-
	LC50 Inhalation Vapour	Rat	17,2 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	3500 mg/kg	-
	LC50 Inhalation Vapour	Rat	>6153 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>3160 mg/kg	-
1-methoxy-2-propanol (PM)	LD50 Oral	Rat	8400 mg/kg	-
	LC50 Inhalation Vapour	Rat	10000 ppm	5 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-

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Product/ingredient name	Result	Species	Dose	Exposure
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	-
bisphenol A-(epichlorhydrin) epoxy resin MW=< 700	LC50 Inhalation Vapour	Rat	23000 mg/kg	4 hours
	LD50 Dermal	Rabbit	15000 mg/kg	-
	LD50 Oral	Rat	>5.000 mg/kg	-
trizinc bis(orthophosphate) titanium dioxide	LD50 Oral	Rat	>5.000 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	3,43 - 5,09 mg/l	4 hours
	LD50 Dermal	Rabbit	>10 g/kg	-
	LD50 Oral	Rat	>24 g/kg	-

Acute toxicity estimates

Route	ATE value
Dermal	50000 mg/kg
Inhalation (vapors)	237,093 mg/l/4h

Corrosion/Irritation

Product/ingredient name	Result	Species	Score	Exposure
xylene (mixture of isomers)	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams
ethylbenzene	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams
	Respiratory - Mild irritant	Rabbit	-	-
solvent naphtha (petroleum), light arom.	Eyes - Mild irritant	Rabbit	-	-
	Eyes - Mild irritant	Rabbit	-	24 hours 100 milligrams
1-methoxy-2-propanol (PM)	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams
n-butyl acetate	Skin - Mild irritant	Rabbit	-	24 hours 10 milligrams
	Respiratory - Mild irritant	Rabbit	-	-
	Respiratory - Mild irritant	Rabbit	-	-
bisphenol A-(epichlorhydrin) epoxy resin MW=< 700	Skin - Mild irritant	Rabbit	-	-
	Eyes - Not irritant	Rabbit	-	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent

Sensitiser

Product/ingredient name	Route of exposure	Species	Result
bisphenol A-(epichlorhydrin) epoxy resin MW=< 700	skin	Guinea pig	Sensitizing

Mutagenicity

Remarks: No evidence of mutagenic effects.

Carcinogenicity

Remarks: No evidence of carcinogenic effects.

Reproductive toxicity

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

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
titanium dioxide	Negative	Negative	Negative	Rat - Male, Female	Oral: 100 bto 3001000 mg/kg	20 Days; 7 Days Per Week

Teratogenicity

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

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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
solvent naphtha (petroleum), light arom.	Category 3	Not applicable.	Narcotic effects
1-methoxy-2-propanol (PM)	Category 3	Not applicable.	Narcotic effects
n-butyl acetate	Category 3	Not applicable.	Respiratory tract Irritation

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

Aspiration hazard

Product/ingredient name	Result
xylene (mixture of isomers)	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential chronic health effects

Product/ingredient name	Test	Type	Result	Target organs
bisphenol A-(epichlorhydrin) epoxy resin MW=< 700	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	NOAEL	50 mg/kg	-
	OECD 411 Subchronic Dermal Toxicity: 90-day Study	NOAEL	10 mg/kg	-

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	Chronic NOAEL Oral	Rat	3500 mg/kg	-
	Chronic NOAEL Inhalation Dusts and mists	Rat	10 mg/m ³	24 hours

11.2 Endocrine disrupting properties

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.

11.3 Other hazards

The product is flammable. Keep away from excessive heat, sparks or open fire. In use, may form flammable/explosive vapour/air mixture. Electrostatic charges may be generated during pumping, release of which may cause a fire. The vapour/gas is heavier than air and will spread along the ground. Vapour may travel a considerable distance to source of ignition and flash back. Aspiration hazard if swallowed. Can enter lungs and cause damage.

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 subcapitata	72 hours
ethylbenzene	Acute LC50 7,6 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 2,4 mg/l	Daphnie - Daphnia magna	48 hours
	Acute EC50 4,6 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours

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Product/ingredient name	Result	Species	Exposure
solvent naphtha (petroleum), light arom.	Acute EC50 3,2 mg/l Acute EC50 19 mg/l	Daphnie - Daphnia magna Algae - Pseudokirchneriella subcapitata	48 hours 72 hours
1-methoxy-2-propanol (PM)	Acute LC50 9.22 mg/l Acute EC50 23300 mg/l Acute EC50 1000 mg/l	Fish - Oncorhynchus mykiss Daphnie - Daphnia magna Algae - Pseudokirchneriella subcapitata	96 hours 48 hours 168 hours
n-butyl acetate	Acute LC50 350 mg/l Acute LC50 44 mg/l Acute EC50 647,7 mg/l	Fish - Leuciscus idus Daphnie - Daphnia magna Algae - Selenastrum capricornutum	96 hours 48 hours 72 hours
2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bisoxirane	Acute LC50 18 mg/l Acute EC50 1,8 mg/l Acute EC50 11 mg/l	Fish - Oncorhynchus mykiss Daphnie - Daphnia magna Algae - Selenastrum capricornutum	96 hours 48 hours 24 hours
trizinc bis(orthophosphate)	Acute LC50 2 mg/ Acute EC50 >100 mg/l* Acute EC50 >100 mg/l*	Fish - Oncorhynchus mykiss Daphnie - Daphnia magna Algae - Pseudokirchneriella subcapitata	96 hours 48 hours 72 hours
titanium dioxide	Acute LC50 >100 mg/l* NOEC > 1 mg/l Acute LC50 3 mg/l Fresh water Acute LC50 6,5 mg/l Fresh water Acute LC50 >1000000 µg/l Marine water	Fish - Oncorhynchus mykiss Daphnie - Daphnia magna Crustaceans - Ceriodaphnia dubia - Neonate Daphnia spec. - Daphnia pulex - Neonate Fish - Fundulus heteroclitus	96 hours 21 days 48 hours 48 hours 96 hours

* According to GHS 2009 and CLP regulation 1272/2008/EC this mixture does not meet with aquatic classification and labelling criteria (regulation 1272/2008/EC Article 6 1, data generated in accordance with any of the methods referred to, in Article 8(3), on the mixture itself "NOVINOX ACE 20", and GHS 2009 chapter 1.3.2.3 a)).

12.2 Persistence and degradability

Product/ingredient name	Result
xylene (mixture of isomers)	87,8 % - 28 days
ethylbenzene	>70 % - 28 days
solvent naphtha (petroleum), light arom.	78 % - 28 days
1-methoxy-2-propanol (PM)	96 % - 28 days
n-butyl acetate	90 % - 28 days
bisphenol A-(epichlorhydrin) epoxy resin MW=< 700	5 % - 28 days

Remarks: The mixture is, according to the desired resistance, not readily biodegradable.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
titanium dioxide	-	-	Not readily

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
n-butyl acetate	2.3	3.1	low
bisphenol A-(epichlorhydrin) epoxy resin MW=< 700	2.64 – 3.78	31	low
trizinc bis(orthophosphate)	-	60960	high
titanium dioxide	-	19-352	low

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12.4 Mobility in soil

Soil/water partition coefficient (KOC): Not available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

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.

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.

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 Transport hazard class(es)	14.4 PG*	14.5 Env*	Additional information
ADR/RID Class	UN1263	PAINT	3  	III	Yes.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Tunnel code (D/E)
IMDG Class	UN1263	PAINT	3  	III	Yes.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E
IATA Class	UN1263	PAINT	3 	III	Yes.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

PG*.: Packing group

Env.* : Environmental hazards

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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: 335 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.

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

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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

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

Classification	Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2	On basis of test data Calculation method Calculation method Calculation method 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 performance 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.

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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 Tableting, 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, tableting, 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 %.

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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 of articles by tableting, 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 exhaust 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 exhaust 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

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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): 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.

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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.

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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 Tableting, 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 %.

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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 of articles by tableting, 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.

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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 (%): 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

PROC 8b / 9:

Exposure estimate: 6.86 mg/kg/day

RCR: 0.04

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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.

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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

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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.

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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 exhaust 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 exhaust 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 (%): 93.6

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.

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SECTION 3: Exposure estimation

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):

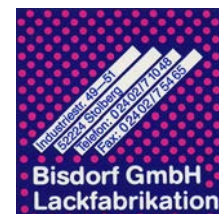
Exposure estimate: 6 ppm

RCR: 0.34

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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.