

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878
Issue date: 6/17/2020 Revision date: 9/1/2022 Supersedes version of: 6/15/2022 Version: 2.00

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

1.1. Product identifier

Product form : Mixture
Name : Epoxy Primer

Trade name : ARMORPRIMER EP 2000-20

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

1.2.1. Relevant identified uses

Use of the substance/mixture : The product is intended for professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NOVOL Sp. z o.o. Żabikowska 7/9 62-052 KOMORNIKI

Poland

T 0048618109800 - F 0048618109809

www.novol.com

E-mail address of competent person responsible for the SDS: dokumentacja@novol.com

1.4. Emergency telephone number

Emergency number : 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2

Skin corrosion/irritation, Category 2

H315

Serious eye damage/eye irritation, Category 1

H318

Skin sensitisation, Category 1

H317

Carcinogenicity, Category 2

H351

Hazardous to the aquatic environment – Chronic Hazard, Category 3

H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02



GHS05



GHS07



GHS08

Signal word (CLP) : Danger

Contains : butan-1-ol; n-butanol, isobutyl methyl ketone Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

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H351 - Suspected of causing cancer.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 - Avoid breathing vapours, spray.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P312 - Call doctor if you feel unwell.

EUH-statements : EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

EUH205 - Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≥ 700 < 1100)	CAS-No.: 25068-38-6 EC-No.: 500-033-5 EC Index-No.: 603-074-00-8 REACH-no: 01-2119456619- 26	14 – 24	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
xylene substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit (Note C)	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216- 32	10 – 20	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] substance with national workplace exposure limit(s) (GB) (Note V)(Note W)(Note 10)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379- 17	5 – 12	Carc. 2, H351
isobutyl methyl ketone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 108-10-1 EC-No.: 203-550-1 EC Index-No.: 606-004-00-4 REACH-no: 01-2119473980- 30	4 – 9	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336
butan-1-ol; n-butanol substance with national workplace exposure limit(s) (GB)	CAS-No.: 71-36-3 EC-No.: 200-751-6 EC Index-No.: 603-004-00-6 REACH-no: 01-2119484630-38	2 – 6	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335

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Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≥ 700 < 1100)	CAS-No.: 25068-38-6 EC-No.: 500-033-5 EC Index-No.: 603-074-00-8 REACH-no: 01-2119456619- 26	(5 ≤C ≤ 100) Eye Irrit. 2, H319 (5 ≤C ≤ 100) Skin Irrit. 2, H315	

Note 10 : 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 μ m.

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note V : If the substance is to be placed on the market as fibres (with diameter < $3 \mu m$, length > $5 \mu m$ and aspect ratio $\geq 3:1$) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.

Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: General information. Refer to section 11.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable
	for breathing.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash
	immediately with plenty of water and soap. Rinse skin with water/shower. If skin irritation or
	rash occurs: Get medical advice/attention. If skin irritation continues, consult a doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

First-aid measures after ingestion : If swallowed: rinse mouth. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation : Vapours may cause drowsiness and dizziness.

Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry.

Symptoms/effects after eye contact : May cause eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, alcohol-resistant foam or waterspray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Other toxic gases.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Remove ignition sources. Ensure that there is a suitable ventilation system. Avoid any direct

or indirect contact with ingredients released. Avoid contact with skin and eyes. Use personal

protective equipment as required. See Section 8.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. See Section 8.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

6.3. Methods and material for containment and cleaning up

For containment : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Mechanically

recover the product.

6.4. Reference to other sections

Disposal considerations. See Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking. Use only outdoors or in a well-

ventilated area. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Storage temperature : 5-35 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

xylene (1330-20-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Xylene, mixed isomers, pure	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	442 mg/m³	
IOEL STEL [ppm]	100 ppm	
Remark	Skin	

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xylene (1330-20-7)	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Xylene
WEL TWA (OEL TWA) [1]	220 mg/m³ o-,m-,p- or mixed isomers
WEL TWA (OEL TWA) [2]	50 ppm o-,m-,p- or mixed isomers
WEL STEL (OEL STEL)	441 mg/m³ o-,m-,p- or mixed isomers
WEL STEL (OEL STEL) [ppm]	100 ppm o-,m-,p- or mixed isomers
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	Xylene, o-, m-, p- or mixed isomers
BMGV	650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
butan-1-ol; n-butanol (71-36-3)	
United Kingdom - Occupational Exposure Limits	
Local name	Butan-1-ol
WEL STEL (OEL STEL)	154 mg/m³
WEL STEL (OEL STEL) [ppm]	50 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
isobutyl methyl ketone (108-10-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	4-Methylpentan-2-one
IOEL TWA [ppm]	20 ppm
IOEL STEL	208 mg/m ³
IOEL STEL [ppm]	50 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	4-Methylpentan-2-one
WEL TWA (OEL TWA) [1]	208 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	416 mg/m³
WEL STEL (OEL STEL) [ppm]	100 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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isobutyl methyl ketone (108-10-1)	
United Kingdom - Biological limit values	
Local name	4-methylpentan-2-one
BMGV	20 μmol/l Parameter: 4-methylpentan-2-one - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
titanium diovide: Iin nowder form containing	1.0/ or mare of portiolog with governments dispersed < 10 uml /12/62 67.7\
intamum dioxide, [iii powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)
United Kingdom - Occupational Exposure Limits	1 % or more of particles with aerodynamic diameter ≤ 10 μmj (13463-67-7)
	Titanium dioxide
United Kingdom - Occupational Exposure Limits	

8.1.2. Recommended monitoring procedures

Monitoring methods	
9	EN 482. Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

xylene (1330-20-7)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	289 mg/m³	
Acute - local effects, inhalation	289 mg/m³	
Long-term - systemic effects, dermal	180 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	77 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	174 mg/m³	
Acute - local effects, inhalation	174 mg/m³	
Long-term - systemic effects,oral	1.6 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	14.8 mg/m³	
Long-term - systemic effects, dermal	108 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.327 mg/l	
PNEC aqua (marine water)	0.327 mg/l	
PNEC aqua (intermittent, freshwater)	0.327 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	12.46 mg/kg dwt	
PNEC sediment (marine water)	12.46 mg/kg dwt	
PNEC (Soil)		
PNEC soil	2.31 mg/kg dwt	

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xylene (1330-20-7)			
PNEC (STP)			
PNEC sewage treatment plant	6.58 mg/l		
butan-1-ol; n-butanol (71-36-3)			
DNEL/DMEL (Workers)			
Long-term - local effects, inhalation	310 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	3.125 mg/kg bodyweight/day		
Long-term - local effects, inhalation	55 mg/m³		
PNEC (Water)			
PNEC aqua (freshwater)	0.082 mg/l		
PNEC aqua (marine water)	0.0082 mg/l		
PNEC aqua (intermittent, freshwater)	2.25 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	0.178 mg/kg dwt		
PNEC sediment (marine water)	0.0178 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.015 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	2476 mg/l		
isobutyl methyl ketone (108-10-1)			
DNEL/DMEL (Workers)			
Acute - systemic effects, inhalation	208 mg/m³		
Acute - local effects, inhalation	208 mg/m³		
Long-term - systemic effects, dermal	11.8 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	83 mg/m³		
Long-term - local effects, inhalation	83 mg/m³		
DNEL/DMEL (General population)			
Acute - systemic effects, inhalation	155.2 mg/m³		
Acute - local effects, inhalation	155.2 mg/m³		
Long-term - systemic effects,oral	4.2 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	14.7 mg/m³		
Long-term - systemic effects, dermal	4.2 mg/kg bodyweight/day		
Long-term - local effects, inhalation	14.7 mg/m³		
PNEC (Water)			
PNEC aqua (freshwater)	0.6 mg/l		
PNEC aqua (marine water)	0.06 mg/l		
PNEC aqua (intermittent, freshwater)	1.5 mg/l		

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isobutyl methyl ketone (108-10-1)		
PNEC (Sediment)		
PNEC sediment (freshwater)	8.27 mg/kg dwt	
PNEC sediment (marine water)	0.83 mg/kg dwt	
PNEC (Soil)		
PNEC soil	1.3 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	27.5 mg/l	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Viton® II	6 (> 480 minutes)	0,7 mm		EN 374-3
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	0,4 mm		EN 374-3

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection				
Device Filter type Condition Standard				
Gas mask with filter type	Filter A1/B1		EN 14387	

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Grey. : characteristic. Odour Odour threshold : 0.9 – 9 mg/m³ Xylene Melting point : Not applicable Freezing point : Not available Boiling point : 114 - 142 °C Flammability : Not applicable Explosive properties : No data available. **Explosive limits** : Not available Lower explosion limit : 1.1 vol % Xylene Upper explosion limit : 8 vol % Xylene : 19 °C Flash point : 355 °C Auto-ignition temperature Decomposition temperature : Not available рΗ : Not available

pH : Not available
Viscosity, kinematic : Not available
Solubility : Slightly soluble.
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : 9 hPa
Vapour pressure at 50°C : Not available
Density : 1.5 g/cm³
Relative density : Not available

Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from sources of ignition. Prevent build-up of electrostatic charges (e.g, by grounding). Protect from sunlight. Avoid high temperatures.

10.5. Incompatible materials

No contact with: strong acids, strong bases and strong oxidants.

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce: Carbon monoxide. Other toxic gases.

SECTION 11: Toxicological information

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	 Not classified (Based on available data, the classification criteria are not met)

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

xylene (1330-20-7)		
LD50 oral rat	3523 mg/kg rat	
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male	
LC50 Inhalation - Rat	27124 mg/l	
butan-1-ol; n-butanol (71-36-3)		
LD50 oral rat	2292 mg/kg Source: ECHA	
LD50 dermal rabbit	3430 mg/kg Source: ECHA	
isobutyl methyl ketone (108-10-1)		
LD50 oral rat	2080 mg/kg Source: ECHA	
LD50 dermal rabbit	≥ 2000 mg/kg Source: ECHA	
LC50 Inhalation - Rat (Vapours)	11.6 mg/l Source: ECHA	
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)		
LC50 Inhalation - Rat (Dust/Mist)	> 6.82 mg/l Source: ECHA	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight >= 700 < 1100) (25068-38-6)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)	
LD50 dermal rat	> 2000 mg/kg Source: CHEMIDPLUS	
Skin corrosion/irritation	: Causes skin irritation.	

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
рН	7 Source: ECHA
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight >= 700 < 1100) (25068-38-6)	
рН	4.5 – 4.7
Serious eye damage/irritation :	Causes serious eye damage.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-	
рН	7 Source: ECHA

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight >= 700 < 1100) (25068-38 6)	
nH	45-47

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Suspected of causing cancer.

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isobutyl methyl ketone (108-10-1)	
IARC group	2B - Possibly carcinogenic to humans
titanium dioxide; [in powder form conta	ining 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
butan-1-ol; n-butanol (71-36-3)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
isobutyl methyl ketone (108-10-1)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
xylene (1330-20-7)	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
butan-1-ol; n-butanol (71-36-3)	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat
isobutyl methyl ketone (108-10-1)	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	4106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
butan-1-ol; n-butanol (71-36-3)	
Viscosity, kinematic	3.641 mm ² /s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute)

: Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic)

: Harmful to aquatic life with long lasting effects.

Not rapidly degradable

xylene (1330-20-7)	
LC50 - Fish [1]	2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia

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xylene (1330-20-7)		
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'	
butan-1-ol; n-butanol (71-36-3)		
LC50 - Fish [1]	1376 mg/l Source: ECHA	
EC50 - Crustacea [1]	1983 mg/l Source: ECHA	
EC50 96h - Algae [1]	225 mg/l Source: ECHA	
NOEC (chronic)	4.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
isobutyl methyl ketone (108-10-1)		
LC50 - Fish [1]	> 179 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	> 200 mg/l Test organisms (species): Daphnia magna	
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)		
LC50 - Fish [1]	> 100 mg/l	
EC50 72h - Algae [1]	> 50 mg/l Source: ECHA	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight >= 700 < 1100) (25068-38-6)		
LC50 - Fish [1]	1.41 mg/l Source: National Institute of Technology and Evaluation	
EC50 - Crustacea [1]	≈ 2 mg/l Test organisms (species): Daphnia magna	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

butan-1-ol; n-butanol (71-36-3)		
Partition coefficient n-octanol/water (Log Pow)	0.9 Source: HSDB	
isobutyl methyl ketone (108-10-1)		
Partition coefficient n-octanol/water (Log Pow)	1.31 Source: ChemIDPlus	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight >= 700 < 1100) (25068-38-6)		
Partition coefficient n-octanol/water (Log Pow)	2.821 Source: National Institute of Technology and Evaluation	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Do not discharge into drains.

Product/Packaging disposal recommendations : This material and its container must be disposed of as hazardous waste. Do not dispose of

with domestic waste. After cleaning, recycle or dispose of at an authorised site.

Additional information : Flammable vapours may accumulate in the container.

European List of Waste (LoW) code : 08 01 11* - waste paint and varnish containing organic solvents or other dangerous

substances

15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 1263	UN 1263	UN 1263
14.2. UN proper shipping name		
PAINT	PAINT	Paint
Transport document description		
UN 1263 PAINT, 3, II, (D/E)	UN 1263 PAINT, 3, II (19°C c.c.)	UN 1263 Paint, 3, II
14.3. Transport hazard class(es)		
3	3	3
3	3	3
14.4. Packing group		
II	II	II
14.5. Environmental hazards		,
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		1

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5I
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 2

Tunnel restriction code (ADR) : D/E EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 163, 367 Limited quantities (IMDG) : 5 L

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Special packing provisions (IMDG) : PP1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : B

Air transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

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Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor

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Abbreviations and acronyms:		
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Data sources : ECHA (European Chemicals Agency).

Training advice : Handle in accordance with good industrial hygiene and safety procedures.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	

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Full text of H- and EUH-statements:			
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Carc. 2	Carcinogenicity, Category 2		
EUH205	Contains epoxy constituents. May produce an allergic reaction.		
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H302	Harmful if swallowed.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H351	Suspected of causing cancer.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Skin sensitisation, Category 1		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Flam. Liq. 2	H225	On basis of test data	
Skin Irrit. 2	H315	Calculation method	
Eye Dam. 1	H318	Calculation method	
Skin Sens. 1	H317	Calculation method	
Carc. 2	H351	Calculation method	
Aquatic Chronic 3	H412	Calculation method	

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.