

## SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 (REACH), amended by Regulation (EU) 453/2010

Version 2.1  
Date of Issue: 09.21.2020  
Date Printed: 09.21.2020

# P-413

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Trade Name / Product Code: P-413**

**Product Name: Brown Baked Phenolic Epoxy Coating**

**Article number:** HER006/1

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

No further relevant information available.

#### **Application of the substance / the preparation:**

Heat-cured phenolic coating for products fabricated of light gauge metal.

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

#### **Manufacturer/Supplier:**

HERESITE PROTECTIVE COATINGS, LLC

Liquid Coatings Division 822 SOUTH 14TH ST. MANITOWOC, WI 54220, USA

Tel: 001-920-684-6646 (HERESITE Information Line)

Telefax: 001-920-684-0110

#### **Only Representative (OR)**

Ramboll UK Ltd

1 Broad Gate The Headrow Leeds LS1 8EQ

United Kingdom

Tel.: +44-(0)113-245-7552

Fax: +44-(0)113-245-7495

#### **Information:**

see manufacturer/supplier

email Sue Bullock, Ramboll ([sbullock@ramboll.com](mailto:sbullock@ramboll.com))

### 1.4 Emergency telephone number:

Worldwide:

Chemtrec +1 703-741-5970 / 1-800-424-9300

UK

In England and Wales: NHS Direct - 0845 4647

In Scotland: NHS 24 - 08454 24 24 24

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.

### 2.2 Label Elements

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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### Hazard Pictogram:



### Signal Word:

Danger

### Hazard-determining components of labelling:

Bisphenol A diglycidyl ether-bisphenol A copolymer

### Hazard Statement(s):

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

### Precautionary statement(s):

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

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/ lighting/equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

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

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 - If skin irritation occurs: Get medical advice / attention.

P362 - Take off contaminated clothing and wash before reuse.

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

Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P261 - Avoid breathing mist/vapours/spray.

P501 - Dispose of contents/container in accordance with local/regional/ national/international regulations.

### Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH209 Can become highly flammable in use.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixtures

**Description:** Mixture of the substances listed below with harmless additions.

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INGREDIENT	CAS Number	EINECS	Percent (w/w)	Substance Classification
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3		10 – 30%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317
Xylene	1330-20-7	215-535-7	0.5 - 1%	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H320; Asp. Tox. 1, H304; STOT SE 3, H335; STOT RE 2, H373 (CNS, liver, kidney)
1-methoxypropan-2-ol	107-98-2	203-539-1	5 – 10%	Flam. Liq. 3, H226; STOT SE 3, H336
2-butoxyethanol	111-76-2	203-905-0	1 – 5%	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319
Acetone	67-64-1	200-662-2	5 – 10%	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	500-033-5	1 – 5%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 2, H411;

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General information:

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Instantly remove any clothing soiled by the product.

Contaminated clothing should be laundered before reuse.

##### After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

##### After skin contact:

Instantly wash with water and soap and rinse thoroughly.

Seek medical treatment.

##### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek immediate medical advice.

##### After swallowing:

Do NOT induce vomiting unless directed to do so by medical personnel.

Rinse out mouth and then drink plenty of water.

NEVER give anything to drink to an unconscious person.

Call a doctor immediately.

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

Repeated skin contact may result in sensitisation (allergy).

In case of contact with eyes and/or skin:

Eye irritation, redness, tearing and blurred vision.

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

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Symptomatic treatment following exposure to the product.

## SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

Alcohol-resistant foam

CO<sub>2</sub>

Fire-extinguishing powder

**For safety reasons unsuitable extinguishing agents:** Water with a full water jet.

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

Formation of toxic gases is possible during heating or in case of fire.

### 5.3 Advice for firefighters Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

Wear full protective suit.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Keep unprotected persons away.

Keep people at a distance and stay on the windward side.

Ensure adequate ventilation.

Keep away from ignition sources.

### 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers).

Keep dirty washing water for appropriate disposal.

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

Ensure adequate ventilation.

Absorb with liquid-binding noncombustible material (e.g. sand).

Clean the accident area carefully; suitable cleaners are:

Warm water and cleaning agent.

Send for recovery or disposal in suitable containers.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Handle with care. Avoid jolting, friction and impact.

Use solvent-proof equipment.

### Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect from heat.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity). Do not smoke.

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Wear shoes with insulated soles.  
Protect against electrical device failure.

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

#### Storage

#### Requirements to be met by storerooms and containers:

Storehouses and workplaces must be sufficiently ventilated. Store in cool location.

Suitable storage temperature -40 °C - +40 °C

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids. Store away from oxidising agents.

#### Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well-sealed containers.

Protect from heat and direct sunlight.

**7.3 Specific end use(s):** No further relevant information available.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Additional information about design of technical systems:

Engineering controls should be used as primary means to control exposures.

Make available emergency shower and eye wash at the workplace.

A workplace risk assessment must be carried out in order to determine the corrective engineering control and organizational measures and personal protective equipment.

No further data; see Section 7.

### 8.1 Control parameters

Component	Type / Country	
Xylene	IOELV (EU)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221mg/m <sup>3</sup> , 50 ppm
	OEL (Italy)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm
	OEL (UK)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm
	OEL (FR)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221mg/m <sup>3</sup> , 50 ppm
1-methoxypropan-2-ol	IOELV (EU)	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
	OEL (Italy)	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
	OEL (UK)	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
	OEL (FR)	Short-term value: 375 mg/m <sup>3</sup> , 100 ppm Long-term value: 188 mg/m <sup>3</sup> , 50ppm

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2-butoxyethanol	IOELV (EU)	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 98 mg/m <sup>3</sup> , 20 ppm
	OEL (Italy)	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 98 mg/m <sup>3</sup> , 20 ppm
	OEL (UK)	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 123 mg/m <sup>3</sup> , 25 ppm
	OEL (FR)	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 10 mg/m <sup>3</sup> , 49 ppm
Acetone	IOELV (EU)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
	OEL (Italy)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
	OEL (UK)	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
	OEL (FR)	Short-term value: 2420 mg/m <sup>3</sup> , 1000 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
<b>Ingredients with biological limit values:</b>		
Xylene (mix)	BMGV (UK)	650 mmol/mol creatinine Medium: urine Post shift Parameter: methyl hippuric acid
	BMGV (FR)	1500 mg/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acid
2-butoxyethanol	BMGV (UK)	240 mmol/mol creatinine Medium: urine Time: Post shift Parameter: Butoxyacetic acid
Acetone	BMGV (Italy)	50 mg/L Medium: urine Sampling Time: end of shift Parameter: Acetone (Nonspecific)
	BMGV(FR)	100 mg/L Medium: urine Parameter: Acetone (Background noise on non-exposed subjects, Non-specific (observed after the exposure to other substances))

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## 8.2 Exposure controls

### Personal protective equipment

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Take off immediately all contaminated clothing.

Laundry work clothing regularly.

Wash hands before breaks and at the end of the work. Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not eat, drink or smoke while working to limit potential ingestion of chemicals.

#### Breathing equipment:

Engineering controls should be used as primary means to control exposures. Local exhaust ventilation is required unless used in a closed system. For laboratory use, handle in a lab fume hood.

If the applicable Occupational Exposure Level (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves:** Chemically resistant gloves (Standard EN374).

#### Penetration time of glove material:

The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed safety glasses.

**Body protection:** Protective work clothing.

Apron

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General Information

**Appearance:**

Brown Paint

**Form:**

Liquid

**Colour:**

Brown

**Odour:**

Solvent-like

**Odour threshold:**

Not determined.

**pH-value:**

Not applicable.

Change in condition

**Melting point/Melting range:**

Not determined.

**Boiling point/Boiling range:**

56 °C (calculated)

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Flash point:	-20 °C (calculated)
Flammability (solid, gaseous)	Not applicable.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-inflammability:	Not determined.
Danger of explosion:	Not applicable.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	76.3 mm Hg
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	2.8
Solubility in / Miscibility with	
Water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Specific Gravity:	1.33
Viscosity:	Not determined.
kinematic:	
9.2 Other information:	No further relevant information available.

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

No known hazards with respect to reactivity when handled and stored according to provisions.

### 10.2 Chemical stability:

Stable under recommended storage and handling conditions.

(-40 °C - +40 °C)

### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions:

No dangerous reactions known.

### 10.4 Conditions to avoid:

High temperatures

Heat, flames and sparks.

### 10.5 Incompatible materials:

No further relevant information available.

### 10.6 Hazardous decomposition products:

In case of fire:

Carbon monoxide and carbon dioxide. Hydrocarbons

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity:** There is no data available for the material itself.

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	> 2000 mg/kg (rat)	> 2000 mg/kg (Rat)	No information available.
Xylene	1330-20-7	> 4300 mg/kg (rat)	> 2000 mg/kg	6350 mg/L (Rat)

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1-methoxypropan-2-ol	107-98-2	4277 mg/kg (rat)	> 2000 mg/kg (rabbit)	>= 6000 <= 7000 ppm (mouse)
2-butoxyethanol	111-76-2	1414 mg/kg (guinea pig)	> 2000 mg/kg (rabbit)	> 800 ppm (rat)
Acetone	67-64-1	5800 mg/kg (rat)	Insufficient data to classify	Insufficient data to classify
Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	> 2000 mg/kg (rat)	> 2000 mg/kg (rat)	Insufficient data to classify

Substances	CAS Number	Skin Corrosion / Irritation
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Irritating to skin in rabbits.
Xylene	1330-20-7	Irritating to skin in rabbits.
1-methoxypropan-2-ol	107-98-2	Not irritating to skin in rabbits.
2-butoxyethanol	111-76-2	Irritating to skin in rabbits.
Acetone	67-64-1	Not irritating to skin in guinea pigs.
Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	Slightly irritating to skin in rabbits.

Substances	CAS Number	Eye damage/irritation
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Irritating to rabbit's eye.
Xylene	1330-20-7	Moderately irritating to rabbit's eye.
1-methoxypropan-2-ol	107-98-2	Non-irritating to rabbit's eye.
2-butoxyethanol	111-76-2	Irritating to rabbit's eye.
Acetone	67-64-1	Slightly irritating to rabbit's eye.
Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	Slightly irritating to rabbit's eye.

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Substances	CAS Number	Skin Sensitisation
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Has caused allergic sensitization in guinea pigs.
Xylene	1330-20-7	Not sensitizing in laboratory animals.
1-methoxypropan-2-ol	107-98-2	
2-butoxyethanol	111-76-2	
Acetone	67-64-1	
Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	Moderate dermal sensitization potential in mice. Has caused allergic sensitization in guinea pigs. Has caused allergic skin reactions in humans.

Substances	CAS Number	Respiratory Sensitisation
Not applicable	Not applicable	No studies were identified with regard to respiratory sensitisation for any of the hazardous substances contained within this product.

Substances	CAS Number	Mutagenic Effects
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Some similar epoxy resins have shown some genetic toxicity <i>in vitro</i> – others did not.
Xylene	1330-20-7	<i>In vitro</i> tests did not show mutagenic effects. <i>In vivo</i> tests did not show mutagenic effects.
1-methoxypropan-2-ol	107-98-2	
2-butoxyethanol	111-76-2	
Acetone	67-64-1	
Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	<i>In vitro</i> tests showed mutagenic effects. <i>In vivo</i> tests did not show mutagenic effects.

Substances	CAS Number	Carcinogenic Effects
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Similar epoxy resins did not cause cancer in long term studies.
2-butoxyethanol	111-76-2	Did not show carcinogenic effects in animal experiments.  A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (Italy - Recommended Exposure Limits Based on ACGIH TLVs – Carcinogens)
Xylene	1330-20-7	Did not show carcinogenic effects in animal experiments.

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1-methoxypropan-2-ol	107-98-2	
Acetone	67-64-1	
Reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	

Substances	CAS Number	Reproductive toxicity
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Did not cause birth defects in laboratory animals. Has been toxic to the fetus only at maternally toxic doses.
Xylene	1330-20-7	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
1-methoxypropan-2-ol	107-98-2	
2-butoxyethanol	111-76-2	
Acetone	67-64-1	
Reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	There was no evidence of developmental toxicity at doses levels resulting in maternal toxicity in rats and rabbits following oral administration or rabbits following dermal administration.

Substances	CAS Number	STOT - single exposure
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	No significant toxicity observed in animal studies at concentrations requiring classification.
Xylene	1330-20-7	May cause respiratory irritation.
1-methoxypropan-2-ol	107-98-2	May cause damage or disorder to the central nervous system.
2-butoxyethanol	111-76-2	No significant toxicity observed in animal studies at concentrations requiring classification.
Acetone	67-64-1	May cause damage or disorder to the central nervous system.
Reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	No significant toxicity observed in animal studies at concentrations requiring classification.

Substances	CAS Number	STOT - repeated exposure
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	No data of sufficient quality were identified. Reported symptoms following chronic exposure may include anesthetic and narcotic effects; dizziness and drowsiness may also occur. In animals, target organs were liver, kidney and spleen.

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Xylene	1330-20-7	May cause damage to central nervous system, liver, kidney through prolonged or repeated exposure.
1-methoxypropan-2-ol	107-98-2	No significant toxicity observed in animal studies at concentrations requiring classification.
2-butoxyethanol	111-76-2	
Acetone	67-64-1	
Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	

Substances	CAS Number	Aspiration hazard
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	Not applicable
Xylene	1330-20-7	May be fatal if swallowed and enters airways.
1-methoxypropan-2-ol	107-98-2	Not considered to be an aspiration hazard.
2-butoxyethanol	111-76-2	
Acetone	67-64-1	Not applicable
Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	

## SECTION 12 ECOLOGICAL INFORMATION

**12.1 Toxicity** No ecotoxicological data for the substance itself are available.

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Xylene (mix)	1330-20-7	EbC50 – <i>Selenastrum capricornutum</i> Result: 2.2 mg/l Exposure time: 73 h	LC50 – <i>Salmo gairdneri</i> Result: 3.3 mg/l Exposure time: 96 h	IC50 – Activated sludge Result: 96 mg/l Exposure time: 24 h (similar substance)	IC50 - <i>Daphnia magna</i> Result: 1 mg/l Exposure time: 24 h (similar substance)
Bisphenol A diglycidyl ether-bisphenol A copolymer	25036-25-3	EC50 – <i>Selenastrum capricornutum</i> Result: >1000 mg/l Exposure time: 7d	LC50 - Fathead minnow ( <i>Pimephales promelas</i> ) Result: > 20000 mg/l	IC50 – Activated sludge, respiration inhibition Result: >1000 mg/l	LC50 - <i>Daphnia magna</i> Result: > 23000 mg/l Exposure time: 48 h

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			Exposure time: 96 h		
1-methoxypropan-2-ol	107-98-2	<i>Pseudokirchnerella subcapitata</i> Result: > 1000 mg/L Exposure time: 7 d	EC50 - Fathead minnow ( <i>Pimephales promelas</i> ) Result: 20800 mg/l Exposure time: 96 h	IC50 – Activated sludge Result: 100 mg/L Exposure time: 3 h	LC50 - <i>Daphnia magna</i> Result: 21100 - 25900 mg/l Exposure time: 96 h
2-butoxyethanol	111-76-2	EC 50 - <i>Pseudokirchnerella subcapitata</i> Result: 911 mg/l Exposure time: 72 h	EC50 - <i>Oncorhynchus mykiss</i> Result: 1474 mg/l Exposure time: 96 h	Insufficient data to classify	EC50 - Water flea ( <i>Daphnia magna</i> ) Result: 1550 mg/l Exposure time: 48 h
Acetone	67-64-1	Insufficient data to classify	LC50 – Fathead minnow Result: 8120 mg/l Exposure time: 96 h	EC12 – Activated sludge Result: 1000 mg/l Exposure time: 30 m	EC50 - <i>Daphnia pulex</i> Result: 8800 mg/l Exposure time: 48 h
Reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	EbC50 - <i>Scenedesmus capricornutum</i> Result: 9.4 mg/L Exposure time: 72 h	LC50 - <i>Oncorhynchus mykiss</i> Result: 1.50 mg/L Exposure Time: 96 h	IC50 - Industrial activated sludge Result: 13 mg/L Exposure time: 3 h	EC50 – <i>Daphnia magna</i> Result: 1.7 mg/L Exposure time: 48 h

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:**

At present no ecotoxicological assessments are known.

Avoid transfer into the environment.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not determined.

**vPvB:** Not determined.

**12.6 Other adverse effects** No further relevant information available.

**13 DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

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### Recommendation:

Remove according to local authority recommendations, e.g. convey to a licensed incinerator.

Remove in accordance with the local official recommendations.


### European waste catalogue:

08 00 00 Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks.

08 01 00 Wastes from MFSU and removal of paint and varnish

08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances

## SECTION 14 TRANSPORT INFORMATION

14.1 UN Number ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name ADR IMDG, IATA	PAINT (vapour pressure at 50 °C not more than 110 kPa) PAINT
14.3 Transport hazard class(es) ADR, IMDG, IATA	3 3
 Class Label	3 3
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant	No
14.6 Special precautions for user Hazard Index Number: EMS Number:	Warning: Flammable liquids. 33 F-E, <u>S-E</u>
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional Information: ADR Limited quantities (LQ) Transport category Tunnel restriction code UN "Model Regulation":	-  5L 2 (D/E) UN1263, PAINT (vapour pressure at 50 °C not more than 110 kPa), 3, II

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### 15. REGULATORY INFORMATION

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

No further relevant information available.

#### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

### 16. OTHER INFORMATION

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Revision History

Version 2: Revisions were made to Sections 2, 3, 8, 9, 11, 12, and 16 of the SDS.

Version 2.1: Revisions were made to Sections 1 and 16 of the SDS.

#### Relevant phrases

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H320 Causes eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NOEC: No Observed Effect Concentration

EC50: Effective concentration that causes 50 % of the maximum response

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

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Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Chronic 2, Aquatic Chronic Toxicity, Hazard Category 3