Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878

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

1.1. **product identifiers**

Article No. (manufacturer/supplier)	942
Trade name/designation	BLENDA-POX ECO Härter

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

1.3. **Details of the supplier of the safety data sheet**

supplier (manufacturer/importer/downstream user/distributor)
Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

Department responsible for information:
laboratory Manager

E-mail (competent person)	info@knuchel.ch

1.4. **Emergency telephone number**

Emergency telephone number	145 (+41 (0)44 251 51 51)

SECTION 2: Hazards identification

2.1. **Classification of the substance or mixture**

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

2.2. **Label elements**

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

Hazard pictograms

Warning

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves and eye/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Supplemental hazard information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. **Other hazards**

No information available.

SECTION 3: Composition/information on ingredients

3.2. **Mixtures**

Description waterborne epoxy coating, containing the following hazardous substances:

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
216-823-5 1675-54-3 603-073-00-2	01-2119456619-26 reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700 Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 5 / Skin Irrit. 2 H315 >= 5	80 - 100
203-539-1 107-98-2 603-064-00-3	01-2119457435-35 1-methoxy-2-propanol Flam. Liq. 3 H226 / STOT SE 3 H336	5 - 10

Additional information

Full text of classification: see section 16

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 advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

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

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media
strong water jet

5.2. **Special hazards arising from the substance or mixture**
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. **Advice for firefighters**
Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. **Environmental precautions**
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. **Methods and material for containment and cleaning up**
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**
Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information
Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. **Conditions for safe storage, including any incompatibilities**

Requirements for storage rooms and vessels
Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage
Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions
Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. **Specific end use(s)**
Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**
Occupational exposure limit values:

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

WEL, TWA: 375 mg/m3; 100 ppm
WEL, STEL: 560 mg/m3; 150 ppm
Remark: (may be absorbed through the skin)

Additional information

TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

DNEL:

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3
DNEL acute dermal, short-term (systemic), Workers: 8,33 mg/kg bw/day
DNEL long-term dermal (systemic), Workers: 8,33 mg/kg bw/day
DNEL acute inhalative (systemic), Workers: 12,25 mg/m³
DNEL long-term inhalative (systemic), Workers: 12,25 mg/m³
DNEL long-term oral (repeated), Consumer: 0,75 mg/kg bw/day
DNEL acute dermal, short-term (systemic), Consumer: 3,571 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 3,571 mg/kg
DNEL acute inhalative (systemic), Consumer: 0,75 mg/m³
DNEL long-term inhalative (systemic), Consumer: 0,75 mg/m³
DNEL short-term oral (systemic), Consumer: 0,75 mg/kg bw/day

1-methoxy-2-propanol
Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2
DNEL long-term dermal (systemic), Workers: 183 mg/kg bw/day
DNEL acute inhalative (local), Workers: 553,5 mg/m³
DNEL long-term inhalative (systemic), Workers: 369 mg/m³
DNEL long-term oral (repeated), Consumer: 3,3 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 18,1 mg/kg bw/day
DNEL long-term inhalative (systemic), Consumer: 43,9 mg/m³

PNEC:

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3
PNEC aquatic, freshwater: 0,006 mg/L
PNEC aquatic, marine water: 0,0006 mg/L
PNEC aquatic, intermittent release: 0,018 mg/L
PNEC sediment, freshwater: 0,996 mg/kg
PNEC sediment, marine water: 0,0996 mg/kg
PNEC, soil: 0,196 mg/kg
PNEC sewage treatment plant (STP): 10 mg/L
PNEC Secondary Poisoning: 11 mg/kg

1-methoxy-2-propanol
Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2
PNEC aquatic, freshwater: 10 mg/L
PNEC aquatic, marine water: 1 mg/L
PNEC aquatic, intermittent release: 100 mg/L
PNEC sediment, freshwater: 52,3 mg/kg
PNEC sediment, marine water: 5,2 mg/kg
PNEC, soil: 4,59 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L

8.2. **Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)
Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection
Wear closely fitting protective glasses in case of splashes.

Body protection
Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures
After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls
Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

Physical state:	**Liquid**
Colour:	**refer to label**
Odour:	**characteristic**
Odour threshold:	**not applicable**
Melting point/freezing point:	**not applicable**
Initial boiling point and boiling range:	**120 °C** Source: 1-methoxy-2-propanol
Flammability:	**Flammable liquid and vapour.**
Lower and upper explosion limit:	
Lower explosion limit:	**1.07 Vol-%**
Upper explosion limit:	**13.7 Vol-%** Source: 1-methoxy-2-propanol
Flash point:	**30 °C** Method: DIN 53213
Auto-ignition temperature:	**165 °C** Source: dipropylene-glycol-dimethyl-ether
Decomposition temperature:	**not applicable**
pH at 20 °C:	**not applicable**
Cinematic viscosity (40°C):	**< 270 mm²/s**
Viscosity at 20 °C:	**530 - 650 mPas**
Solubility(ies):	
Water solubility at 20 °C:	**partially soluble**
Partition coefficient: n-octanol/water:	**see section 12**
Vapour pressure at 20 °C:	**11.5 mbar** Source: 1-methoxy-2-propanol
Density and/or relative density:	
Density at 20 °C:	**1.13 g/cm³**
Relative vapour density:	**not applicable**
particle characteristics:	**not applicable**

9.2. **Other information**

Solid content:	**87 weight-%**
solvent content:	
Organic solvents:	**13 weight-%**
Water:	**0 weight-%**

SECTION 10: Stability and reactivity

10.1. **Reactivity**
No information available.

10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**
Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**
not applicable

10.6. **Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
oral, LD50, Rat: 11400 mg/kg
dermal, LD50, Rabbit: 23000 mg/kg

1-methoxy-2-propanol
oral, LD50, Rat: 4,016 mg/kg
Method: EU Test B.1
Depression of central nervous system
dermal, LD50, Rat: > 2 mg/kg
Method: EU Test B.3
inhalative (vapours), LC50, Rat: 36,67 mg/L (4 h)
Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Skin, Rabbit (4 h)
Irritant
eyes, Rabbit
Irritant

1-methoxy-2-propanol
Skin (4 h)
Method: EU Test B.4
Not to be classified as skin etching/irritant.
eyes
Method: EU Test B.5
Not to be classified as severe eye damage or eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Skin:
No data available
Respiratory system:
No data available

1-methoxy-2-propanol
Skin, Guinea pig: ; Evaluation Not to be classified as skin sensitising.

Method: Directive 67/548/EEC, Annex V, B.6.
Respiratory system, Guinea pig: ; Evaluation not sensitising.
Method: Directive 67/548/EEC, Annex V, B.6.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Germ cell mutagenicity; Evaluation positive
Method: OECD 471 (Ames test)
Carcinogenicity; Evaluation negative
Method: OECD 453
Rat; oral; 2 years; 7 days per week
Reproductive toxicity
Method: OECD 416
Rat; oral; 540 mg/kg NOEL
Germ cell mutagenicity; Evaluation positive
Method: OECD 476
In vitro gene mutation test on mammalian cells
Germ cell mutagenicity; Evaluation negative
Method: OECD 478
Genetic Toxicology: Rodent Dominant Lethal Test
Carcinogenicity; Evaluation negative
Method: OECD 453
Rat; dermal; 2 years; 5 days per week
Carcinogenicity; Evaluation negative
Method: OECD 453
Mouse; dermal; 2 years; 3 days per week
teratogenicity
Method: OECD 414
Rat, female; >540 mg/kg NOEL
teratogenicity
Method: EPA CFR
Rabbit, female; > 300 mg/kg NOEL
teratogenicity
Method: OECD 414
Rabbit, female; 180 mg/kg NOAEL

1-methoxy-2-propanol
Germ cell mutagenicity; Evaluation Not to be classified as germ cell mutagen (mutagen).
Carcinogenicity; Evaluation Does not qualify as a carcinogen.
Method: OECD 453
Reproductive toxicity; Evaluation Does not qualify as a carcinogen.
Method: OECD 416
The toxic effect on reproduction was only demonstrated in animal experiments after the administration of very high amounts of substances.
Lactation
No data available
teratogenicity; Evaluation No effect on fertility in animal studies.
In animal experiments, the substance showed a fruit-damaging effect in high doses, which were toxic for the mother animals.

STOT-single exposure; STOT-repeated exposure

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Specific target organ toxicity (single exposure)
No data available
Specific target organ toxicity (repeated exposure)
No data available

1-methoxy-2-propanol
Specific target organ toxicity (single exposure)
Inhalation; central nervous system; May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure) Evaluation Not to be classified as specific target organ toxic (repeated exposure).

Aspiration hazard

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Aspiration hazard
No data available

1-methoxy-2-propanol
Aspiration hazard
Not to be classified as aspirational.

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. **Information on other hazards**

Endocrine disrupting properties
No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. **Toxicity**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Fish toxicity, LC50, Leuciscus idus (golden orfe): 2 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1,8 mg/L (48 h)
Fish toxicity, EC50, Leuciscus idus (golden orfe): 3,6 mg/L (96 h)
Fish toxicity, EC50, Selenastrum capricornutum: 220 mg/L (96 h)
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,3 mg/L (21 d)
Algae toxicity, EC50, Scenedesmus capricornutum: 9,4 mg/L (72 h)
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2 mg/L (96 h)

1-methoxy-2-propanol
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna 21,1 - 25,9 mg/L (48 h)
Method: ESR-ES-15
Fish toxicity, LC50, Leuciscus idus (golden orfe) 4,6 - 10 mg/L (96 h)
Method: DIN 38412 / part 15
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1 mg/L (7 d)
Acute aquatic toxicity Evaluation Based on available data, the classification criteria are not met.
Fish toxicity, LC50, Pimephales promelas (fathead minnow): 20,8 mg/L (96 h)
Bacteria toxicity, IC50, Activated sludge: 1 mg/L (3 h)
Method: OECD 209

Long-term Ecotoxicity

1-methoxy-2-propanol
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1 mg/L (7 d)
Chronic aquatic toxicity Evaluation Based on available data, the classification criteria are not met.

12.2. **Persistence and degradability**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Biodegradation: 5 percent (28 d); Evaluation Not readily biodegradable (according to OECD criteria)
Method: OECD 301F

1-methoxy-2-propanol
Biodegradation: 96 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria).
Method: OECD 301E
Persistence and degradability:
No data available

12.3. **Bioaccumulative potential**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Distribution coefficient n-octanol/water (log KOW):
No data available

1-methoxy-2-propanol
Distribution coefficient n-octanol/water (log KOW): < 1 ; Evaluation The product has a low bioaccumulation potential

Bioconcentration factor (BCF)

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Bioconcentration factor (BCF): 31

1-methoxy-2-propanol
Bioconcentration factor (BCF): 3,16

12.4. **Mobility in soil**

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
soil:
No data available

1-methoxy-2-propanol
soil: Evaluation Highly mobile in the ground
Water: Evaluation The product is insoluble in water.

12.5. **Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. **Endocrine disrupting properties**
No information available.

12.7. **Other adverse effects**
No information available.

SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product
Recommendation
Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

List of proposed waste codes/waste designations in accordance with EWC
080111* Waste paint and varnish containing organic solvents or other dangerous substances
*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package
Recommendation
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. **UN number or ID number**

UN 1263

14.2. **UN proper shipping name**

Land transport (ADR/RID):	Paint
Sea transport (IMDG):	PAINT
Air transport (ICAO-TI / IATA-DGR):	Paint

14.3. **Transport hazard class(es)**

3

14.4. **Packing group**

III

14.5. **Environmental hazards**

Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code D/E

Sea transport (IMDG)

EmS-No. F-E, S-E

14.7. **Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]
VOC-value (in g/L): 152

National regulations

Restrictions of occupation
Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

15.2. **Chemical Safety Assessment**
For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
216-823-5 1675-54-3	reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700	01-2119456619-26
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35

SECTION 16: Other information

Full text of classification in section 3

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3	Flammable liquids	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration

EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.