Safety Data Sheet dated 30/7/2018, version 1
Regulation (EU) 2015/830

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

1.1. Product identifier

Identification of the mixture:

Trade name: EPOWAY
Trade code: 6675.153

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

Epoxy primer.

1.3. Details of the supplier of the safety data sheet

Company:
BOERO BARTOLOMEO S.p.A. - Via Macaggi 19 - 16121 Genova - Tel. +39 010 55001 - Fax +39 010 5500305 - CF/P. IVA/REG. IMPRESE DI GENOVA 00267120103
Brand Veneziani TM used Under License of Colorificio Zetagi S.r.l.

Competent person responsible for the safety data sheet:
sicurezzaprodotti@boero.it

1.4. Emergency telephone number

BOERO BARTOLOMEO S.p.A. - Tel.+39 010 55001
opening hours 9.00 am - 5.00 pm
MALTA: tel. 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Flam. Liq. 3, H226 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.
Aquatic Chronic 3, H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

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.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire use CO2 or chemical powder. Never use water.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container according to local regulations.

Special Provisions:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Contains

reaction product: bisphenol -A-epichloridrin (MW > 700)

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

Adverse physicochemical, human health and environmental effects:

The main adverse physical-chemical effects for human health and the environment are listed in accordance with Sections 9 to 12 of the safety data sheet

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

not measured

3.2. Mixtures

Hazardous components in accordance with Regulation EC 1272/2008 on classification, labelling and packaging of substances and mixtures and subsequent amendaments, and corresponding classification:

>= 15% - < 20% reaction product: bisphenol -A-epichloridrin (MW > 700)

CAS: 25036-25-3
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1,1A,1B H317 May cause an allergic skin reaction.

>= 15% - < 20% titanium dioxide

REACH Reg.No.: 01-2119489379-17-XXXX, CAS: 13463-67-7, EC: 236-675-5
Substance with a Union workplace exposure limit.

>= 11.5% - < 12.5% 2-methoxy-1-methylethyl acetate

REACH Reg.No.: 01-2119475791-29-XXXX, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9
Flam. Liq. 3 H226 Flammable liquid and vapour.

>= 9% - < 10% xylene [4]

REACH Reg.No.: 01-2119488216-32-XXXX, CAS: 1330-20-7, EC: 215-535-7
Flam. Liq. 3 H226 Flammable liquid and vapour.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Acute Tox. 4 H332 Harmful if inhaled.
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Irrit. 2 H315 Causes skin irritation.

>= 2% - < 3% hydrocarbons, C9, aromatics
EC: 918-668-5
Flam. Liq. 3 H226 Flammable liquid and vapour.
STOT SE 3 H335 May cause respiratory irritation.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
DECLP (CLP)*

>= 2% - < 3% 2-methylpropan-1-ol; iso-butanol
REACH Reg.No.: 01-2119484609-23-XXXX, Index number: 603-108-00-1, CAS: 78-83-1, EC: 201-148-0
Flam. Liq. 3 H226 Flammable liquid and vapour.
STOT SE 3 H335 May cause respiratory irritation.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
STOT SE 3 H336 May cause drowsiness or dizziness.

>= 0.5% - < 1% ethanol
REACH Reg.No.: 01-2119457610-43-XXXX, Index number: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye irritation.

>= 0.25% - < 0.5% ethylbenzene
Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
STOT RE 2 H373 H373.5
Acute Tox. 4 H332 Harmful if inhaled.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

>= 0.01% - < 0.1% free crystalline silica - respirable fraction
CAS: 14808-60-7, EC: 238-878-4
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

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

Causes skin irritation.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO2, Foam, Chemical powders, according to the materials involved in the fire.

In case of fire use CO2 or chemical powder. Never use water.

Extinguishing media which must not be used for safety reasons:

Do not use water jets

5.2. Special hazards arising from the substance or mixture

Avoid breathing the fumes.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Adequately ventilated premises.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Always keep the containers tightly closed.
Keep away from food, drink and feed.
Instructions as regards storage premises:
Cool and adequately ventilated.

7.3 Specific end use(s)
See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

titanium dioxide - CAS: 13463-67-7
EU - TWA(8h): 10 mg/m3
AGS - TWA(8h): 5 mg/m3
MAK - STEL: 3 mg/m3
ACGIH - TWA(8h): 10 mg/m3 - Notes: A4 - LRT irr
HRKGVI - Notes: 4 mg/m3 (R respirabilna prašina)
VLE1 - Notes: 10 mg/m3 (U ukupna prašina)

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
EU - TWA(8h): 275 mg/m3, 50 ppm - STEL: 550 mg/m3, 100 ppm - Notes: Skin
HR - TWA(8h): 275 mg/m3, 50 ppm
HRKGVI - STEL: 550 mg/m3, 100 ppm

xylene [4] - CAS: 1330-20-7
EU - TWA(8h): 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Notes: Skin
AGS - TWA(8h): 221 mg/m3 - STEL((15 min)): 442 mg/m3 - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)
ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
AGS - TWA(8h): 221 mg/m3 - STEL((15 min)): 442 mg/m3 - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)
VLE1 - TWA(8h): 211 mg/m3, 50 ppm
VLE - STEL: 442 mg/m3, 100 ppm - Notes: Skin

hydrocarbons, C9, aromatics
EU - STEL: 100 mg/m3, 20 ppm
AGS - TWA(8h): 250-350 mg/m3

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
ACGIH - TWA(8h): 50 ppm - Notes: Skin and eye irr
VLE1 - TWA: 154 mg/m3, 50 ppm
VLE - STEL: 231 mg/m3, 75 ppm

ethanol - CAS: 64-17-5

ACGIH - STEL: 1000 ppm - Notes: A3 - URT irr
VLE1 - TWA: 1900 mg/m3, 1000 ppm

ethylbenzene - CAS: 100-41-4
EU - TWA(8h): 442 mg/m3, 100 ppm - STEL: 884 mg/m3, 200 ppm - Notes: Skin
AGS - TWA(8h): 200 mg/m3 - STEL((15 min)): 450 mg/m3
ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair
VLE1 - TWA(8h): 442 mg/m3, 100 ppm
VLE - STEL: 884 mg/m3, 200 ppm

free crystalline silica - respirable fraction - CAS: 14808-60-7
ACGIH - TWA(8h): 0.025 mg/m3 - Notes: (R), A2 - Pulm fibrosis, lung cancer
AGS - TWA(8h): 0.2 mg/m3 - Notes: mg fiber/cm3 (Anm. C: Ämnet är cancerframkallande, M: Medicinsk kontroll kan krävas för hantering av ämnet.)
MAK - STEL: 0.15 mg/m3

DNEL Exposure Limit Values

titanium dioxide - CAS: 13463-67-7
Worker Industry: 10 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 700 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Worker Industry: 153.5 mg/kg - Worker Professional: 153.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 275 mg/kg - Worker Professional: 275 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 33 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

xylene [4] - CAS: 1330-20-7
Worker Industry: 289 mg/m3 - Consumer: 174 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 289 mg/m3 - Consumer: 174 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 77 mg/m3 - Consumer: 14.8 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

hydrocarbons, C9, aromatics
Worker Industry: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 150 mg/m3 - Consumer: 32 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethanol - CAS: 64-17-5
Worker Industry: 1900 mg/m3 - Worker Professional: 1900 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 950 mg/m3 - Worker Professional: 343 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values
- titanium dioxide - CAS: 13463-67-7
  - Target: Marine water - Value: 1 mg/L
  - Target: Fresh Water - Value: 0.127 mg/L
  - Target: Microorganisms in sewage treatments - Value: 100 mg/L
  - Target: Marine water sediments - Value: 100 mg/kg
  - Target: Freshwater sediments - Value: 1000 mg/kg
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
  - Target: Fresh Water - Value: 0.635 mg/L
  - Target: Marine water - Value: 0.0635 mg/L
  - Target: Microorganisms in sewage treatments - Value: 100 mg/L
  - Target: Freshwater sediments - Value: 3.29 mg/kg
  - Target: Marine water sediments - Value: 0.329 mg/kg
- xylene [4] - CAS: 1330-20-7
  - Target: Fresh Water - Value: 0.327 mg/L
  - Target: Marine water - Value: 0.327 mg/L
  - Target: Freshwater sediments - Value: 12.46 mg/kg
  - Target: Marine water sediments - Value: 12.46 mg/kg
  - Target: Microorganisms in sewage treatments - Value: 6.58 mg/L
- ethanol - CAS: 64-17-5
  - Target: Fresh Water - Value: 0.96 mg/L
  - Target: Marine water - Value: 0.79 mg/L
  - Target: Marine water sediments - Value: 2.9 mg/kg
  - Target: Freshwater sediments - Value: 3.6 mg/kg
  - Target: Food chain - Value: 720 mg/kg

Biological Exposure Index
- xylene [4] - CAS: 1330-20-7
  - Value: 1.50 mg/L - medium: Blood - Sampling Period: End of turn
  - Value: 1.50 gg creatinina - medium: Blood - Sampling Period: End of turn
- ethylbenzene - CAS: 100-41-4
  - Value: 1.50 mg/L - medium: Blood - Sampling Period: DU
  - Value: 2 ppm - medium: Air at the end of exhalation - Sampling Period: A
  - Value: 1.50 gg creatinina - medium: Urine - Biological Indicator: 78 - Sampling Period: End of turn; End of working week

8.2. Exposure controls

Eye protection:

Use goggles/facemask certified UNI EN 166.
Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Suitable protective clothing is required for complete skin protection: for example coveralls with long sleeves and trousers, rubber boots and apron, etc.

Protection for hands:

Use protective gloves: waterproof rubber gloves certified UNI EN 374. Nitrile gloves provide good protection. Use care in selecting a penetration time of the gloves longer than the foreseen usage time.

Respiratory protection:

Use adequate protective respiratory equipment: a carbon filter mask with filters certified UNI EN 149 or dust masks certified UNI EN 140. Filters of types A and P types may be considered.

Thermal Hazards:

None

Environmental exposure controls:
See sections 6 and 13
Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance :	liquid
Odour:	not measured
Colour:	white
pH:	not measured
Melting point / freezing point:	not measured
Boiling point (°C):	bp>35 °C
Initial boiling point and boiling range:	not measured
Solid/gas flammability:	not measured
Upper/lower flammability or explosive limits:	not measured
Vapour density:	not measured
Flash point:	28 °C
Evaporation rate:	not measured
Vapour pressure:	not measured
Specific gravity (Kg/L) 20°C :	1.5638
Solubility in water:	not measured
Lipid solubility:	not measured
Partition coefficient (n-octanol/water):	not measured
Auto-ignition temperature:	not measured
Decomposition temperature:	not measured
Kinematic viscosity at 40°C (mm2/s):	kv > 20,5

Viscosity (23°C+-0.5°C): min 15000 - max 18000
Methodology: BROOKFIELD (cP)
Spindle: 6
Speed (rpm): 10

9.2. Other information
No further information

Miscibility:	not measured
Fat Solubility:	not measured
Conductivity:	not measured
Substance Groups relevant properties	not measured

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

a) acute toxicity

b) skin corrosion/irritation

Causes skin irritation.

c) serious eye damage/irritation

Causes serious eye irritation.

d) respiratory or skin sensitisation

May cause an allergic skin reaction.

e) germ cell mutagenicity

f) carcinogenicity

g) reproductive toxicity

h) STOT-single exposure

i) STOT-repeated exposure

j) aspiration hazard

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

The toxicological information relating to the main substances in the mixture are referred in the following:

titanium dioxide - CAS: 13463-67-7

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 10.000 mg/kg

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 5000 mg/kg

Test: LC50 - Route: inhalation - Species: rat > 10.6 mg/kg

Test: LD50 - Route: dermal - Species: rat > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Corrosive - Species: rabbit Negative

xylene [4] - CAS: 1330-20-7

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 3500 mg/kg

Test: LD50 - Route: dermal - Species: rabbit > 4200 mg/kg

Test: LC50 - Route: inhalation of vapours - Species: rat > 20 ml/l

c) serious eye damage/irritation:

Test: Eye Irritant Positive

hydrocarbons, C9, aromatics

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 3492 mg/kg

Test: LD50 - Route: dermal - Species: rat > 3160 mg/kg

Test: LC50 - Route: inhalation - Species: rat > 6193 mg/m3 - Duration: 4h

ethanol - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat = 6200 mg/kg

Test: LC50 - Route: inhalation - Species: rat = 8000 mg/l - Duration: 4h

Test: LD50 - Route: dermal - Species: rat = 20000 mg/kg
ethylbenzene - CAS: 100-41-4
a) acute toxicity:
Test: LC50 - Route: inhalation - Species: rat = 17.2 mg/l - Duration: 4h

SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
Harmful to aquatic life with long lasting effects.
titanium dioxide - CAS: 13463-67-7
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: OECD 203
Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: OECD 202
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 400 mg/l - Duration h: 48
xylene [4] - CAS: 1330-20-7
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1 ml/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae 18204.2 5 mg/l - Duration h: 72
hydrocarbons, C9, aromatics
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48

12.2. Persistence and degradability
There is no data available on the mixture itself.
12.3. Bioaccumulative potential
Bioaccumulative:
There is no data available on the preparation itself.
12.4. Mobility in soil
There is no data available on the preparation itself.
12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
There is no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Directives 91/156/CEE, 91/689/CEE, 94/62/CE.
EWC CODE 080111

SECTION 14: Transport information

14.1. UN number
UN 1263
14.2 Proper shipping name:Paint

14.3 Transport hazard class(es) and Packing Group:
3 PG III
14.4. Environmental hazards
Dangerous for the environment /Marine Pollutant: -
14.5. Special precautions for user
None
Other informations
Land transport ADR/RID/ADN
Exemptions: POSSIBILE ADR:2.2.3.1.5 - IMDG:2.3.2.5
ADR Classification code: F1
Maximum quantity for Limited Quiantities: 5L/Kg
Tunnel code :D/E
Transport category: 3
Marittime transport (IMDG)
Exemptions: POSSIBILE ADR:2.2.3.1.5 - IMDG:2.3.2.5
Maximum quantity for Limited Quiantities: 5L/Kg
EmS number: F-E/S-E
Stowage provisions: A
Air transport(IATA/ICAO)
Exemptions: POSSIBILE ADR:2.2.3.1.5 - IMDG:2.3.2.5
Maximum quantity for Limited Quiantities: 5L/Kg
Pkg. inst. passenger and cargo aircraft: 309
Pkg. inst. cargo aircraft only: 310
Erg-code: 3L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 89/391/CEE and subsequent amendments (Risks related to chemical agents at work and Occupational exposure limit values). Directive 1999/13/EC and subsequent amendments (limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations). Regulation (CE) n. 1907/2006 , Regulation (CE) 830/2015 and subsequent amendments (concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals - REACH). Regulation (CE) n.1272/2008 and subsequent amendments (on classification, labeling and packaging of substances and mixtures - CLP).
International Maritime Dangerous Goods Code, IATA Dangerous Goods Regulation, International Carriage of Dangerous Goods by Road (ADR).
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
No limits set.
Where applicable, refer to the following regulatory provisions :
Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.
Regulation UE No 649/2012 concerning the export and import of dangerous chemicals.
Regulation UE n. 528/2012 concerning the making available on the market and use of biocidal products.
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (Detergents).

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2015/830.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.

TWA:	Time-weighted average
WGK:	German Water Hazard Class.