



Safety Data Sheet dated 1/8/2018, 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: OSC SEALER
Trade code: 21605.111

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

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

Competent person responsible for the safety data sheet:

sicurezza@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

FOR USA 800-424-9300

INTERNATIONAL, CALL +1-703-527-3887

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.

STOT SE 3, H335 May cause respiratory irritation.

STOT SE 3, H336 May cause drowsiness or dizziness.

STOT RE 2, H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 2, H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

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H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
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.

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.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire use CO₂ or chemical powder. Never use water.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container according to local regulations.

Special Provisions:

EUH205 Contains epoxy constituents. May produce an allergic reaction.
PACK2 The packing must have tactile indications of danger for blind people.

Contains

hydrocarbons, C9, aromatics
xylene [4]
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (M.W. <= 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

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

>= 15% - < 20% 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)*

>= 15% - < 20% 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.

>= 5% - < 6% aluminium powder (stabilised)

Index number: 013-002-00-1, CAS: 7429-90-5, EC: 231-072-3

Water-react. 2 H261 In contact with water releases flammable gases.

Flam. Sol. 1 H228 Flammable solid.

>= 5% - < 6% barium sulfate

REACH Reg.No.: 01-2119491274-35-XXXX, CAS: 7727-43-7, EC: 231-784-4

Substance with a Union workplace exposure limit.

>= 2% - < 3% hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

REACH Reg.No.: 01-2119463258-33-XXXX, EC: 919-857-5

Flam. Liq. 3 H226 Flammable liquid and vapour.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

STOT SE 3 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

DECLP (CLP)*

>= 2% - < 3% 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.

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>= 2% - < 3% reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)

REACH Reg.No.: 01-2119456619-26-XXXX, Index number: 603-074-00-8, CAS: 25068-38-6, EC: 500-033-5

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.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

>= 2% - < 3% trizinc bis(orthophosphate)

Index number: 030-011-00-6, CAS: 7779-90-0, EC: 231-944-3

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

>= 1% - < 2% zinc oxide

REACH Reg.No.: 01-2119463881-32-XXXX, Index number: 030-013-00-7, CAS: 1314-13-2, EC: 215-222-5

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

>= 0.25% - < 0.5% N-tallow-1,3-diaminopropane dioleate

REACH Reg.No.: 01-2119974117-33-XXXX, CAS: 61791-53-5, EC: 263-186-4

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Aquatic Acute 1 H400 Very toxic to aquatic life. M=10.

*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:

If breathing is irregular or stopped, administer artificial respiration.

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

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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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

Use localized ventilation system.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

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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.

Incompatible materials:

None in particular. See also section 10.

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

hydrocarbons, C9, aromatics

EU - STEL: 100 mg/m³, 20 ppm

AGS - TWA(8h): 250-350 mg/m³

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

aluminium powder (stabilised) - CAS: 7429-90-5

ACGIH - TWA(8h): 1 mg/m³ - Notes: (R), A4 - Pneumoconiosis, LRT irr, neurotoxicity

HR - Notes: 10 mg/m³ (U ukupna prašina)

HRKGVI - Notes: 4 mg/m³ (R respirabilna prašina)

barium sulfate - CAS: 7727-43-7

ACGIH - TWA(8h): 5 mg/m³ - Notes: (I, E) - Pneumoconiosis

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

ACGIH - TWA: 1200 mg/m³, 197 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

zinc oxide - CAS: 1314-13-2

ACGIH - TWA(8h): 2 mg/m³ - STEL: 10 mg/m³ - Notes: (R) - Metal fume fever

VLE1 - TWA: 5 mg/m³

VLE - STEL: 10 mg/m³

DNEL Exposure Limit Values

hydrocarbons, C9, aromatics

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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

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

barium sulfate - CAS: 7727-43-7

Worker Industry: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 13000 mg/kg - Exposure: Human Oral - Frequency: Long Term, local effects

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) - CAS: 25068-38-6

Worker Industry: 8.3 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 8.3 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 3.571 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

trizinc bis(orthophosphate) - CAS: 7779-90-0

Worker Industry: 5 mg/m³ - Consumer: 2.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 83 mg/kg - Consumer: 83 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.83 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

N-tallow-1,3-diaminopropane dioleate - CAS: 61791-53-5

Worker Industry: 0.29 mg/m³ - Consumer: 0.07 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.04 mg/kg - Consumer: 0.018 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.018 mg/cm² - Exposure: Human Oral

PNEC Exposure Limit Values

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

Target: Fresh Water - Value: 0.327 mg/L

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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
barium sulfate - CAS: 7727-43-7
Target: Fresh Water - Value: 0.115 mgBa/L
Target: Freshwater sediments - Value: 600.4 mgBa/Kg
Target: Soil (agricultural) - Value: 207.7 mgBa/Kg
Target: Microorganisms in sewage treatments - Value: 62.2 mgBa/Kg
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) - CAS: 25068-38-6
Target: Freshwater sediments - Value: 0.5 mg/kg
Target: Marine water sediments - Value: 0.5 mg/kg
Target: Fresh Water - Value: 0.006 mg/L
Target: Marine water - Value: 0.0996 mg/kg
Target: Microorganisms in sewage treatments - Value: 10 mg/L
trizinc bis(orthophosphate) - CAS: 7779-90-0
Target: Fresh Water - Value: 0.0206 mg Zn/L
Target: Marine water - Value: 0.0061 mg Zn/L
Target: Freshwater sediments - Value: 117.8 mg Zn/Kg
Target: Marine water sediments - Value: 56.5 mg Zn/Kg
Target: Soil (agricultural) - Value: 35.6 mg Zn/Kg
N-tallow-1,3-diaminopropane dioleate - CAS: 61791-53-5
Target: Fresh Water - Value: 0.00638 mg/L
Target: Marine water - Value: 0.000638 mg/L
Target: Food chain - Value: 98.6 mg/L
Target: Freshwater sediments - Value: 204 mg/kg
Target: Marine water sediments - Value: 20.4 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/face mask 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., according to UNI EN 14325.

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:

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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.

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

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: | grey |
| 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: | 44 °C |
| Evaporation rate: | not measured |
| Vapour pressure: | not measured |
| Specific gravity (Kg/L) 20°C : | 1.2685 |
| 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 (mm ² /s): | kv > 20,5 |
| Viscosity (23°C±0.5°C): | min 6500 - max 9000 |
| 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

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- 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
May cause respiratory irritation.
May cause drowsiness or dizziness.
- i) STOT-repeated exposure
May cause damage to organs <or state all organs affected, if known> <organ> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
- 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:

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

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

barium sulfate - CAS: 7727-43-7

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a) acute toxicity:

Test: LD50 - Route: oral - Species: rat = 307.000 mg/kg

Test: LD50 - Route: oral - Species: Mouse > 3.000 mg/kg

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) acute toxicity:

Test: LC50 - Route: inhalation - Species: rat > 4951 mg/m³ - Duration: 4h - Source: OECD 403

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

Test: LD50 - Route: dermal - Species: rabbit > 5000 mg/kg

ethylbenzene - CAS: 100-41-4

a) acute toxicity:

Test: LC50 - Route: inhalation - Species: rat = 17.2 mg/l - Duration: 4h

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) - CAS: 25068-38-6

a) acute toxicity:

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

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

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

trizinc bis(orthophosphate) - CAS: 7779-90-0

a) acute toxicity:

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

Test: LC50 - Route: inhalation - Species: rat > 5.7 mg/l

N-tallow-1,3-diaminopropane dioleate - CAS: 61791-53-5

a) acute toxicity:

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

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Toxic to aquatic life with long lasting effects.

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

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

barium sulfate - CAS: 7727-43-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 152 mg/l

Endpoint: LC50 - Species: Daphnia = 32 mg/l

Endpoint: LC50 - Species: Algae > 100 mg/l

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Fish = 100 mg/l - Duration h: 72 - Notes: OECD TG 201

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

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Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) - CAS: 25068-38-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1.3 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Daphnia = 2.1 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: LC50 - Species: Algae = 11 mg/l - Duration h: 72

trizinc bis(orthophosphate) - CAS: 7779-90-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.33-6.0 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 0.30 mg/l - Duration h: 72 - Notes: OECD 201

N-tallow-1,3-diaminopropane dioleate - CAS: 61791-53-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Daphnia > 1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 0.1 mg/l - Duration h: 72

Endpoint: NOEC - Species: Algae > 0.1 mg/l - Duration h: 72 - Notes: OECD 201

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: Yes

14.5. Special precautions for user

None

Other informations

Land transport ADR/RID/ADN

ADR Classification code: F1

21605.111/1

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Maximum quantity for Limited Quantities: 5L/Kg
Tunnel code :D/E
Transport category: 3
Maritime transport (IMDG)
Maximum quantity for Limited Quantities: 5L/Kg
EmS number: F-E/S-E
Stowage provisions: A
Air transport(IATA/ICAO)
Maximum quantity for Limited Quantities: 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, E2

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 |
|----------------------------------|--------|--------------------------------------------|
| Water-react. 2 | 2.12/2 | Substance or mixture which in contact with |

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| | | |
|--------------------|---------------|----------------------------------------------------------------|
| | | water emits flammable gas, Category 2 |
| Flam. Liq. 2 | 2.6/2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | 2.6/3 | Flammable liquid, Category 3 |
| Flam. Sol. 1 | 2.7/1 | Flammable solid, Category 1 |
| 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 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 2 | 3.9/2 | Specific target organ toxicity - repeated exposure, Category 2 |
| Aquatic Acute 1 | 4.1/A1 | Acute aquatic hazard, category 1 |
| Aquatic Chronic 1 | 4.1/C1 | Chronic (long term) aquatic hazard, category 1 |
| Aquatic Chronic 2 | 4.1/C2 | Chronic (long term) aquatic hazard, category 2 |

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 |
| STOT SE 3, H335 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| STOT RE 2, H373 | Calculation method |
| Aquatic Chronic 2, H411 | 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

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| | |
|-------------|-------------------------------------------------------------------------------------|
| | 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. |