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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

6020 B2 Anti-Rust Putty

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

Relevant identified uses

Putty.

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Manufacturer

SILCO, D.O.O. Address: Šentrupert 5 a, 3303 Gomilsko, Slovenia Phone: +386 3 703 3180 Fax: +386 3 703 3188 E-mail: n.cvilak@silco-automotive.com Point of contact for safety info: Nejc Cvilak

1.4. Emergency telephone number

Emergency

112

Supplier

+386 3 703 3180

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 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.

Repr. 2; H361d Suspected of damaging the unborn child.

STOT RE 1; H372 Causes damage to organs (hearing organs) through prolonged or repeated exposure (inhalation). Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.



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2.2 Label elements

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



Signal word: Danger

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs (hearing organs) through prolonged or repeated exposure (inhalation).
- H411 Toxic to aquatic life with long lasting effects.
- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P201 Obtain special instructions before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P391 Collect spillage.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulation.
- 2.2.2. Contains:

styrene (CAS: 100-42-5, EC: 202-851-5, Index: 601-026-00-0)

2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

For mixtures see 3.2.



3.2. Mixtures

| Name | CAS EC Index | % | Classification according to Regulation (EC) No 1272/2008 (CLP) | Specific Conc. Limits | REACH Registration No. |
|--------------------------------|--|-----------|--|--------------------------|------------------------|
| styrene | 100-42-5 202-851-5 601-026-00-0 | 10-<20 | Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 Repr. 2; H361 STOT RE 1; H372 Aquatic Chronic 3; H412 | | 01-2119457861-32 |
| trizinc bis(orthophosphate) | 7779-90-0 231-944-3 030-011-00-6 | 4-5 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | | 01-2119485044-40-000 |
| zinc oxide | 1314-13-2 215-222-5 030-013-00-7 | 0,16-0,20 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | | - |

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

Symptoms of poisoning may even occur after several hours; therefore medical observation is required at least 48 hours after the event. Person giving first aid should properly protect himself. If breathing is difficult or if not breathing provide artificial respiration. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. Take off all contaminated clothing immediately.

When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms occur, seek medical advice. If victim is not breathing give artificial respiration. In case of unconsciousness bring patient into stable side position and seek medical attention. In the event of breathing difficulties, get medical advice/attention immediately.

Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention. If irritation of skin persists seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After initial flushing, remove any contact lenses and continue flushing. Seek medical help.

Following ingestion

Do not induce vomiting! Immediately consult a doctor. Show the physician the safety data sheet or label.

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

<u>Inhalation</u>

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

Skin contact

Itching, redness, pain.

Eye contact

Redness, tearing, pain.

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Ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

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

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Fire extinguishing powder. Water spray. Fight larger fires with water spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of heating harmful vapours/gases can be generated.

5.3. Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

Contaminated extinguishing agents must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8). Avoid contact with the eyes and skin. Do not breathe vapours/smoke!

Emergency procedures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Keep away sources of ignition. Evacuate the danger zone. Prevent access to unprotected personnel. Prevent access to unauthorised personnel.

6.1.2. For emergency responders

Use personal protective equipment.

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.



6.3. Methods and material for containment and cleaning up

6.3.1. For containment

Stem the spill if this does not pose risks.

6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Do not use water or water based cleansing agents. Dispose in accordance with applicable regulations (see Section 13).

6.3.3. Other information

See Section 7: safe handling.

6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Take precautionary measures against static discharges. Ensure proper grounding of the equipment. Vapours and air form explosive mixtures. Use spark-proof tools.

Measures to prevent aerosol and dust generation

Ensure good ventilation and extraction. Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in cool and well ventilated area. Keep in tightly closed container. Protect from open fire, heat and direct sunlight. Keep away from sources of ignition - no smoking. Keep away from oxidising substances. Store below 30°C. Keep away from food, drink and animal feeding stuffs. Keep unauthorized personnel away.

7.2.2. Packaging materials

Store only in original container.

7.2.3. Requirements for storage rooms and vessels

Do not store in unlabelled containers. Close opened containers after use. Put the containers upright to prevent from leaking. The floor of the storage room must be impermeable and dam spilled liquid.

7.2.4. Storage class

-

7.2.5. Further information on storage conditions

Storage class: storage must comply with the regulations on storage of flammable chemicals.

7.3. Specific end use(s)

Recommendations

Industrial sector specific solutions

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational exposure limit values

| Name (CAS) | Limit values | | Short-term exposure limit | | Remarks | Biological Tolerance Values |
|--------------------|----------------------------|-------------------|----------------------------|-------------------|---------|-----------------------------|
| | ml/m ³ (ppm) | mg/m ³ | ml/m ³ (ppm) | mg/m ³ | | |
| Styrene (100-42-5) | 100 | 430 | 250 | 1080 | | |

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

8.1.3. DNEL/DMEL values

For components

| Name | Туре | Exposure route | Exposure frequency | Value | Remark |
|---|----------|-------------------|-------------------------------|--------------------------|------------|
| styrene (100-42-5) | Worker | inhalation | long term (systemic effects) | 85 mg/m ³ | |
| styrene (100-42-5) | Worker | inhalation | short term (systemic effects) | 289 mg/m ³ | |
| styrene (100-42-5) | Worker | inhalation | short term (local effects) | 306 mg/m ³ | |
| styrene (100-42-5) | Worker | dermal | long term (systemic effects) | 406 mg/kg bw/day | |
| styrene (100-42-5) | Consumer | inhalation | long term (systemic effects) | 10,2 mg/m ³ | |
| styrene (100-42-5) | Consumer | inhalation | short term (systemic effects) | 174,25 mg/m ³ | |
| styrene (100-42-5) | Consumer | inhalation | short term (local effects) | 182,75 mg/m ³ | |
| styrene (100-42-5) | Consumer | dermal | long term (systemic effects) | 343 mg/kg bw/day | |
| styrene (100-42-5) | Consumer | oral | long term (systemic effects) | 2,1 mg/kg bw/day | |
| trizinc bis(orthophosphate) (7779-90- 0) | Worker | inhalation | 0 | 1 mg/m ³ | Soluble Zn |
| trizinc bis(orthophosphate) (7779-90- 0) | Worker | inhalation | 0 | 5 mg/m ³ | |



8.1.4. PNEC values

For components

| Name | Exposure route | Value | Remark |
|---|-----------------------------|-------------|-------------|
| styrene (100-42-5) | fresh water | 0,028 mg/L | |
| styrene (100-42-5) | marine water | 0,014 mg/L | |
| styrene (100-42-5) | fresh water sediment | 0,614 mg/kg | dry weight |
| styrene (100-42-5) | marine water sediment | 0,307 mg/kg | dry weight |
| styrene (100-42-5) | soil | 0,2 mg/kg | dry weight |
| styrene (100-42-5) | water treatment plant | 5 mg/L | |
| styrene (100-42-5) | water, intermittent release | 0,4 mg/L | fresh water |
| trizinc bis(orthophosphate) (7779-90-0) | fresh water | 0,0206 mg/L | Zn |
| trizinc bis(orthophosphate) (7779-90-0) | marine water | 0,0061 mg/L | Zn |
| trizinc bis(orthophosphate) (7779-90-0) | fresh water sediment | 235,6 mg/kg | Zn |
| trizinc bis(orthophosphate) (7779-90-0) | marine water sediment | 113 mg/kg | Zn |
| trizinc bis(orthophosphate) (7779-90-0) | soil | 106,8 mg/kg | Zn |
| trizinc bis(orthophosphate) (7779-90-0) | water treatment plant | 0,052 mg/L | Zn |

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Store protective clothing separate from regular clothing.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

8.2.2. Personal protective equipment

Eye and face protection

Tight fitting protective goggles (EN 166).

Hand protection

Before use protect hands with suitable protective cream. Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed. Unsuitable gloves: Natural rubber, Chloroprene rubber, Nitrile rubber, Butyl rubber, PVC gloves.

Appropriate materials

| Material | Thickness | Penetration Time | Remark |
|----------------------------|-----------|------------------|----------|
| Viton (fluorinated rubber) | ≥ 0,7 mm | ≥ 480 min | EN 374-4 |

Skin protection

Wear suitable protective clothing. Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard EN 137, EN 138.



Thermal hazards

8.2.3. Environmental exposure controls

Substance/mixture related measures to prevent exposure

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards. Avoid discharge into drains and surface waters.

Technical measures to prevent exposure

Prevent exposure in the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| - | Physical state: | liquid; paste |
|---|-----------------|-------------------|
| - | Colour: | different colours |
| - | Odour: | characteristic |

Important health, safety and environmental information

| - | рН | No information. |
|---|-------------------------------------|--|
| - | Melting point/freezing point | No information. |
| - | Initial boiling point/boiling range | 145 °C |
| - | Flash point | 31 °C |
| - | Evaporation rate | No information. |
| - | Flammability (solid, gas) | 480 °C |
| - | Explosion limits (vol%) | 1,2-8,9 vol % |
| - | Vapour pressure | 6 hPa at 20 °C |
| - | Vapour density | No information. |
| - | Density | Density : 1,2 − 1,9 g/cm ³ at 20 °C |
| - | Solubility | Water: Insoluble |
| - | Partition coefficient | No information. |
| - | Auto-ignition temperature | Not self-igniting. |
| - | Decomposition temperature | No information. |
| - | Viscosity | No information. |
| - | Explosive properties | Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. |
| - | Oxidising properties | No information. |

9.2. Other information

| - | Weight organic solvents | < 120 g/l |
|---|-------------------------|-----------|
| - | Solid contents | ca. 6 % |
| - | Remarks: | |

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended transport or storage conditions.

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10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3. Possibility of hazardous reactions

Risk of exothermic polymerization.

10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5. Incompatible materials

Peroxide. Free radicals. Exothermic polymerisation Bases. Acids.

10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Decomposition products may include toxic gas.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

| Name | Exposure route | Туре | Species | Time | Value | Method | Remark |
|--|------------------------------|-----------|---------|------|--------------|----------|-------------|
| styrene (100-42-5) | oral | LD_{50} | rat | | 5000 mg/kg | | |
| styrene (100-42-5) | dermal | LD_{50} | rat | | > 2000 mg/kg | OECD 402 | |
| styrene (100-42-5) | inhalation | LC_{50} | rat | 4 h | 11,8 mg/l | | |
| trizinc bis(orthophosphate) (7779-90-0) | oral | LD_{50} | mouse | | 522 mg/kg | | |
| trizinc bis(orthophosphate) (7779-90-0) | oral | LD_{50} | rat | | > 5000 mg/kg | | |
| trizinc bis(orthophosphate) (7779-90-0) | inhalation (dusts/mists) | LC_{50} | | 4 h | > 5,7 mg/l | | Read-across |
| zinc oxide (1314-13-2) | inhalation (dusts/mists) | LC_{50} | | 4 h | > 5,7 mg/l | | |
| Additional information: The product is r | ot classified for acute toxi | city. | | | | | |

(b) Skin corrosion/irritation

| Name | Species | Time | Result | Method | Remark |
|---|---------|------|---------------|--------|-------------|
| trizinc bis(orthophosphate) (7779-90-0) | | | Non-irritant. | | Read-across |
| zinc oxide (1314-13-2) | | | Non-irritant. | | |
| Additional information: Causes skin irritation. | | | | | |

(c) Serious eye damage/irritation

| Name | Species | Time | Result | Method | Remark |
|--|---------|------|---------------------|--------|-------------|
| trizinc bis(orthophosphate) (7779-90-0) | | | No irritant effect. | | Read-across |
| Additional information: Causes serious eye irritation. | | | | | |

(d) Respiratory or skin sensitisation

| Name | Exposure route | Species | Time | Result | Method | Remark | | |
|---|----------------|---------|------|------------------|--------|-------------|--|--|
| trizinc bis(orthophosphate) (7779-90-0) | - | | | Negative. | | Read-across | | |
| zinc oxide (1314-13-2) | - | | | Non sensitising. | | | | |
| Additional information: The product is not classified as sensitising. | | | | | | | | |

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(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

| Name | Exposure route | Туре | Species | Time | Value | Result | Method | Remark |
|--------------------|----------------------|-------|---------|------|-----------|--------|----------|------------------------------|
| styrene (100-42-5) | inhalation (vapours) | NOAEL | rat | | 4,34 mg/l | | OECD 453 | 5 days per week, 6 h per day |

(g) Reproductive toxicity

| Name | Reproductive toxicity type | Туре | Species | Time | Value | Result | Method | Remark |
|------------------------|----------------------------|--------------------|---------|------|--------------------|--------|-------------|------------------------|
| styrene (100-42- 5) | Effects on fertility | NOAEL (parents) | rat | | 0,65 – 2,2 mg/L | | OECD 416 | Inhalation (vapour) |
| styrene (100-42- 5) | Effects on fertility | NOAEL (F2) | rat | | 0,22 mg/L | | OECD 416 | Inhalation (vapour) |
| styrene (100-42- 5) | Developmental toxicity | NOAEL | rat | | 2,6 mg/L | | | Inhalation |
| styrene (100-42- 5) | Teratogenicity | NOAEL | rat | | 2,6 mg/L | | | Inhalation |
| styrene (100-42- 5) | Maternal toxicity | LOAEL | rat | | 1,3 mg/L | | | Inhalation |

Summary of evaluation of the CMR properties

Suspected of damaging the unborn child.

(h) STOT-single exposure

No information.

(i) STOT-repeated exposure

| Name | Exposure route | Туре | Species | Time | Organ | Value | Result | Method | Remark | | |
|----------------------|--|-------|---------|----------|-------|-----------|--------|----------|--------|--|--|
| styrene (100-42-5) | inhalation (vapours) | NOAEL | rat | 13 weeks | | 0,85 mg/L | | | 6h/day | | |
| styrene (100-42-5) | inhalation (vapours) | NOAEL | rat | | | | | OECD 453 | 6h/day | | |
| Additional informati | Additional information: Causes damage to the hearing organs through prolonged or repeated exposure if inhaled. | | | | | | | | | | |

(j) Aspiration hazard

Additional information: Aspiration hazard: Not classified.

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SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

For components

| Substance (CAS Nr.) | Туре | Value | Exposure time | Species | Organism | Method | Remark |
|--|------------------|---------------------------|------------------|-----------|------------------------------------|----------------------|--------|
| styrene (100-42-5) | LC_{50} | 4,02 mg/L | 96 h | fish | Pimephales promelas | | |
| | EC_{50} | 4,7 mg/L | 48 h | crustacea | Daphnia magna | OECD 202 | |
| | EC ₅₀ | 4,9 mg/L | 72 h | algae | Pseudokirchneriella subcapitata | EPA OTS 797.1050 | |
| | EC_{50} | ca. 500 mg/L | 30 min | bacteria | | OECD 209 | |
| | EC ₁₀ | 0,28 mg/L | 96 h | algae | Pseudokirchneriella subcapitata | EPA OTS 797.1050 | |
| trizinc bis(orthophosphate) (7779-90-0) | LC ₅₀ | 0,14 – 2,6 mg Zn2+/L | 96 h | fish | Oncorhynchus mykiss | | |
| | EC ₅₀ | 0,413 mg Zn2+/L | 48 h | crustacea | Ceriodaphnia dubia | EPA 821 R-02- 012 | pH < 7 |
| | EC ₅₀ | 0,136 – 0,15 mg Zn2+/L | 72 h | algae | Selenastrum capricornutum | OECD 201 | |

12.1.2. Chronic (long-term) toxicity

For components

| Substance (CAS Nr.) | Туре | Value | Exposure time | Species | Organism | Method | Remark |
|---------------------|------|-----------|---------------|-----------|---------------|----------|--------|
| styrene (100-42-5) | NOEC | 1,01 mg/l | 21 days | crustacea | Daphnia magna | OECD 211 | |

12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

For components

| Substance (CAS Nr.) | Туре | Rate | Time | Evaluation | Method | Remark |
|---------------------|------------------|--------|---------|-----------------------|--------------|---------------------------|
| styrene (100-42-5) | biodegradability | 70,9 % | 28 days | readily biodegradable | ISO DIN 9408 | aerobic, activated sludge |

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

For components

| Substance (CAS Nr.) | Media | Value | Temperature | рΗ | Concentration | Method |
|---------------------|-------------------------|-------|-------------|----|---------------|--------|
| styrene (100-42-5) | Octanol-water (log Pow) | 2,96 | | | | |

12.3.2. Bioconcentration factor (BCF)

For components

| Substance (CAS Nr.) | species | Organism | Value | Duration | Evaluation | Method | Remark |
|---------------------|---------|----------|-------|----------|------------|--------|------------------|
| styrene (100-42-5) | BCF | fish | 13,5 | | | | |
| styrene (100-42-5) | BCF | | 74 | | | | Calculated value |

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12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

For components

| Substance (CAS Nr.) | Туре | Criterion | Value | Evaluation | Method | Remark |
|---------------------|------|-----------|-------|------------|--------|--------|
| styrene (100-42-5) | Soil | log KOC | 2,55 | | | |
| styrene (100-42-5) | Soil | | 352 | | | Koc |

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Do not allow to reach ground water, water courses or sewage system. Danger for drinking water if even small quantities leak into ground water. Water hazard class 2 (self-assessment): hazardous for water. Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not dispose together with household garbage. Do not allow product to reach drains/sewage systems.

Waste codes / waste designations according to LoW

07 02 08* - other still bottoms and reaction residues

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Dispose of in accordance with applicable waste disposal regulation.

13.1.2. Waste treatment-relevant information

Disposal in accordance with the Rules on the management of waste.

13.1.3. Sewage disposal-relevant information

13.1.4. Other disposal recommendations

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN 1866

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14.2. UN proper shipping name

RESIN SOLUTION

IMDG name: RESIN SOLUTION (trizinc bis(orthophosphate))

14.3. Transport hazard class(es)

3

14.4. Packing group

Ш

14.5. Environmental hazards

Additional labeling: ENVIRONMENTALLY HAZARDOUS

IMDG: MARINE POLLUTANT

14.6. Special precautions for user

Limited quantities

5 L

Tunnel restriction code

(D/E)

IMDG flashpoint

31 °C, c.c.

IMDG EmS

F-E, <u>S-E</u>

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Goods may not be carried in bulk in bulk containers, containers or vehicles.

SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

EU limit values and category: B(b) 250 g/l. VOC Content: < 120 g/l

15.1.2. Special instructions

Seveso P5c: FLAMMABLE LIQUIDS. Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Indication of changes

Abbreviations and acronyms



Product name: 6020 B2 Anti-Rust Putty

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ATE - Acute Toxicity Estimate ADR - Agreement concerning the International Carriage of Dangerous Goods by Road ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways CEN - European Committee for Standardisation C&L - Classification and Labelling CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 CAS# - Chemical Abstracts Service number CMR - Carcinogen, Mutagen, or Reproductive Toxicant CSA - Chemical Safety Assessment CSR - Chemical Safety Report DMEL - Derived Minimal Effect Level **DNEL - Derived No Effect Level** DPD - Dangerous Preparations Directive 1999/45/EC DSD - Dangerous Substances Directive 67/548/EEC DU - Downstream User EC - European Community ECHA - European Chemicals Agency EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS) EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway) EEC - European Economic Community EINECS - European Inventory of Existing Commercial Substances ELINCS - European List of notified Chemical Substances EN - European Standard EQS - Environmental Quality Standard EU - European Union Euphrac - European Phrase Catalogue EWC - European Waste Catalogue (replaced by LoW - see below) GES - Generic Exposure Scenario GHS - Globally Harmonized System IATA - International Air Transport Association ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG - International Maritime Dangerous Goods IMSBC - International Maritime Solid Bulk Cargoes IT - Information Technology IUCLID - International Uniform Chemical Information Database IUPAC - International Union for Pure Applied Chemistry JRC - Joint Research Centre Kow - octanol-water partition coefficient LC₅₀ - Lethal Concentration to 50 % of a test population LD₅₀ - Lethal Dose to 50% of a test population (Median Lethal Dose) LE - Legal Entity LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm) LR - Lead Registrant M/I - Manufacturer / Importer MS - Member States MSDS - Material Safety Data Sheet **OC** - Operational Conditions OECD - Organization for Economic Co-operation and Development **OEL - Occupational Exposure Limit** OJ - Official Journal **OR** - Only Representative OSHA - European Agency for Safety and Health at work PBT - Persistent, Bioaccumulative and Toxic substance PEC - Predicted Effect Concentration PNEC(s) - Predicted No Effect Concentration(s) PPE - Personal Protection Equipment (Q)SAR - Qualitative Structure Activity Relationship REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail **RIP - REACH Implementation Project** RMM - Risk Management Measure SCBA - Self-Contained Breathing Apparatus SDS - Safety data sheet

Product name: 6020 B2 Anti-Rust Putty Creation date: 18.11.2020 · Revision: 19.11.2020 · Version: 1

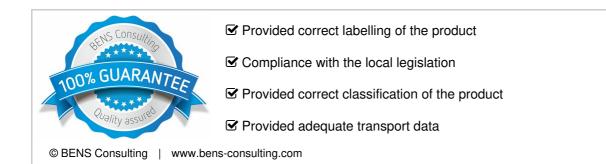


SIEF - Substance Information Exchange Forum SME - Small and Medium sized Enterprises STOT - Specific Target Organ Toxicity (STOT) RE - Repeated Exposure (STOT) SE - Single Exposure SVHC - Substances of Very High Concern UN - United Nations vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

List of relevant H phrases

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child .
- H372 Causes damage to organs through prolonged or repeated exposure .
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.



The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.