

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

EASY PRINT Sn62Pb36Ag2 N

Creation date 30. January 2019
Revision date Version 1.0

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

- 1.1. Product identifier**
Substance / mixture EASY PRINT Sn62Pb36Ag2 N
mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
mixture's intended use Soldering paste
Mixture uses advised against The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name AG TermoPasty Grzegorz Gąsowski
Address Kolejowa 33 E, Sokoły, 18-218
Poland
Identification number (CRN) 200133730
VAT Reg No 9661767714
Phone 862741342
E-mail biuro@termopasty.pl
Web address www.termopasty.pl
- Competent person responsible for the safety data sheet**
Name AG TermoPasty Grzegorz Gąsowski
E-mail biuro@termopasty.pl
- 1.4. Emergency telephone number**
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

- 2.1. Substance or mixture classification**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Skin Sens. 1, H317
Repr. 1A, H360FD
STOT RE 1, H372
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

- 2.2. Label elements**
Hazard pictogram



Signal word
Danger

Hazardous substances

rosin; colophony
1,2-bis(2-methoxyethoxy) ethane

Hazard statements

H317 May cause an allergic skin reaction.
H360FD May damage fertility. May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.

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H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P391 Collect spillage.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note. |
|---|---------------------------------|---------------------|---|-------|
| CAS: 7439-92-1 EC: 231-100-4 Registration number: 01-2119513221-59-xxxx | lead | 32,15-83,5 | Repr. 1A, H360FD STOT RE 1, H372 Aquatic Acute 1, H400, M=1 Aquatic Chronic 1, H410, M=1 | 2, 3 |
| CAS: 7440-31-5 EC: 231-141-8 Registration number: 01-2119486474-28-0033 | tin | 4,465-55,37 | | |
| Index: 650-015-00-7 CAS: 8050-09-7 EC: 232-475-7 Registration number: 01-2119480418-32-XXXX | rosin; colophony | 2,14-3,21 | Skin Sens. 1, H317 | |
| CAS: 7440-22-4 EC: 231-131-3 Registration number: 01-2119555669-21-0025 | silver | 1,34-2,232 | | 1 |
| Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 | 2-(2-butoxyethoxy) ethanol | <1,605 | Eye Irrit. 2, H319 | 1, 3 |
| CAS: 68131-39-5 | Alcohols, C12-15, Ethoxylated | <0,535 | Acute Tox. 4, H302 Aquatic Acute 1, H400 | |
| CAS: 112-49-2 EC: 203-977-3 | 1,2-bis(2-methoxyethoxy) ethane | <0,321 | Eye Irrit. 2, H319 Repr. 1B, H360Df | 2, 3 |

Notes

- 1 Substance for which exposure limits of Community for working environment exist.
- 2 Substance of very high concern - SVHC.
- 3 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

Ingestion

Provide medical treatment. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

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

Inhalation

Cough, headache.

Skin contact

May cause an allergic skin reaction.

Eye contact

Not expected.

Ingestion

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

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6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale dust. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|--|------|------------------|-------------------------|-------|-----------|
| silver (CAS: 7440-22-4) | OEL | 8 hours | 0,1 mg/m ³ | Metal | EU limits |
| 2-(2-butoxyethoxy) ethanol (CAS: 112-34-5) | OEL | 8 hours | 67,5 mg/m ³ | | EU limits |
| | OEL | 8 hours | 10 ppm | | |
| | OEL | Short-term | 101,2 mg/m ³ | | |
| | OEL | Short-term | 15 ppm | | |

United Kingdom of Great Britain and Northern Ireland

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|--|------|------------------|-------------------------|---|--------|
| lead (CAS: 7439-92-1) | WEL | 8 hours | 0,15 mg/m ³ | Control of Lead at Work Regulations (2002) apply, Limit Value applies to total alkyl lead | Gestis |
| tin (CAS: 7440-31-5) | WEL | 8 hours | 2 mg/m ³ | Tin compounds, inorganic, except SnH ₄ | GBR |
| | WEL | 15 minutes | 4 mg/m ³ | Tin compounds, inorganic, except SnH ₄ | |
| rosin; colophony (CAS: 8050-09-7) | WEL | 8 hours | 0,05 mg/m ³ | Capable of causing occupational asthma. | GBR |
| | WEL | 15 minutes | 0,15 mg/m ³ | Capable of causing occupational asthma. | |
| silver (CAS: 7440-22-4) | WEL | 8 hours | 0,1 mg/m ³ | Metal | GBR |
| 2-(2-butoxyethoxy) ethanol (CAS: 112-34-5) | WEL | 8 hours | 67,5 mg/m ³ | | GBR |
| | WEL | 15 minutes | 101,2 mg/m ³ | | |
| | WEL | 8 hours | 10 ppm | | |
| | WEL | 15 minutes | 15 ppm | | |

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DNEL

1,2-bis(2-methoxyethoxy) ethane

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|------------------------|--------|--------------------|
| Workers | Dermal | 6.25 mg/kg bw/day | | |
| Workers | Inhalation | 80.4 mg/m ³ | | |

2-(2-butoxyethoxy) ethanol

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|-------------------------|--------------------------|--------------------|
| Workers | Inhalation | 101.2 mg/m ³ | Local acute effects | |
| Workers | Inhalation | 67.5 mg/m ³ | Local chronic effects | |
| Workers | Dermal | 83 mg/kg | Systemic chronic effects | |
| Workers | Inhalation | 67.5 mg/m ³ | Systemic chronic effects | |

rosin; colophony

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|-----------------------|--------------------------|--------------------|
| Workers | Dermal | 17 mg/kg bw/day | Systemic chronic effects | |
| Workers | Inhalation | 117 mg/m ³ | Systemic chronic effects | |
| Consumers | Oral | 10 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Dermal | 10 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 35 mg/m ³ | Systemic chronic effects | |

silver

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|------------------------|--------------------------|--------------------|
| Workers | Inhalation | 0.1 mg/m ³ | Systemic chronic effects | |
| Consumers | Oral | 1.2 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 0.04 mg/m ³ | Systemic chronic effects | |

tin

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|-------------------------|--------------------------|--------------------|
| Workers | Dermal | 133.3 mg/kg bw/day | Systemic acute effects | |
| Workers | Dermal | 133.3 mg/kg bw/day | Systemic chronic effects | |
| Workers | Inhalation | 11.75 mg/m ³ | Systemic acute effects | |
| Workers | Inhalation | 11.75 mg/m ³ | Systemic chronic effects | |
| Consumers | Oral | 80 mg/kg bw/day | Systemic acute effects | |
| Consumers | Oral | 80 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Dermal | 80 mg/kg bw/day | Systemic acute effects | |
| Consumers | Dermal | 80 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 3.476 mg/m ³ | Systemic acute effects | |
| Consumers | Inhalation | 3.476 mg/m ³ | Systemic chronic effects | |

PNEC

1,2-bis(2-methoxyethoxy) ethane

| Route of exposure | Value | Determining method |
|-------------------|----------|--------------------|
| Drinking water | 6.4 mg/l | |

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1,2-bis(2-methoxyethoxy) ethane

| Route of exposure | Value | Determining method |
|---|---|--------------------|
| Freshwater sediment | 26.6 mg/kg of dry substance of sediment | |
| Seawater | 6.40.64 mg/l | |
| Sea sediments | 2.66 mg/kg of dry substance of sediment | |
| Water (occasional leak) | 50 mg/l | |
| Microorganisms in wastewater treatment plants | 50 mg/l | |
| Soil (agricultural) | 1.75 mg/kg | |

2-(2-butoxyethoxy) ethanol

| Route of exposure | Value | Determining method |
|---|------------|--------------------|
| Seawater | 1.1 mg/l | |
| Microorganisms in wastewater treatment plants | 200 mg/l | |
| Freshwater sediment | 4.4 mg/kg | |
| Sea sediments | 0.44 mg/kg | |
| Drinking water | 56 mg/kg | |
| Soil (agricultural) | 0.32 mg/kg | |

rosin; colophony

| Route of exposure | Value | Determining method |
|---|-------------------------------|--------------------|
| Drinking water | 0.002 mg/l | |
| Seawater | 0.0005 mg/l | |
| Freshwater sediment | 0.007 mg/kg of dry substance | |
| Sea sediments | 0.0108 mg/kg of dry substance | |
| Soil (agricultural) | 21.4 mg/kg of dry substance | |
| Microorganisms in wastewater treatment plants | 1000 mg/l | |

silver

| Route of exposure | Value | Determining method |
|---|--------------|--------------------|
| Soil (agricultural) | 0.794 mg/kg | |
| Drinking water | 0.04 µg/l | |
| Seawater | 0.86 µg/l | |
| Freshwater sediment | 438.13 mg/kg | |
| Sea sediments | 438.13 mg/kg | |
| Microorganisms in wastewater treatment plants | 25 µg/l | |

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

not available

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--------------------|
| Appearance | paste |
| Physical state | solid at 20°C |
| color | grey |
| Odour | characteristic |
| Odour threshold | data not available |
| pH | data not available |
| Melting point/freezing point | 179 °C |
| Initial boiling point and boiling range | 260 °C |
| Flash point | data not available |
| Evaporation rate | non-applicable |
| Flammability (solid, gas) | data not available |
| Upper/lower flammability or explosive limits | |
| flammability limits | data not available |
| explosive limits | data not available |
| Vapour pressure | data not available |
| Vapour density | data not available |
| Relative density | data not available |
| Solubility(ies) | |
| solubility in water | not available |
| solubility in fats | not available |
| Partition coefficient: n-octanol/water | data not available |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| Viscosity | data not available |
| Explosive properties | data not available |
| Oxidising properties | data not available |

9.2. Other information

| | |
|----------------------|-----------------------|
| Density | 1.2 g/cm ³ |
| ignition temperature | 141 °C |

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

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Acute toxicity

Based on available data the classification criteria are not met.

1,2-bis(2-methoxyethoxy) ethane

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Source |
|-------------------|------------------|-------------|------------------|---------|-----|--------|
| Oral | LD ₅₀ | 5390 mg/kg | | Rat | | |
| Skin | LD ₅₀ | >6900 mg/kg | | Rat | | |

2-(2-butoxyethoxy) ethanol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Source |
|-------------------|------------------|-------------|------------------|-------------------------|-----|--------|
| Oral | LD ₅₀ | 5.660 mg/kg | | Rat (Rattus norvegicus) | | TOXNET |
| Dermal | LD ₅₀ | 2.700 mg/kg | | Rabbit | | TOXNET |

Alcohols, C12-15, Ethoxylated

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Source |
|-------------------|------------------|------------|------------------|-------------------------|-----|--------|
| Oral | LD ₅₀ | 2000 mg/kg | | Rat (Rattus norvegicus) | | |

rosin; colophony

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Source |
|-------------------|------------------|------------|------------------|---------|-----|--------|
| Oral | LD ₅₀ | 7600 mg/kg | | Rat | | |

silver

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Source |
|-------------------|------------------|------------------|------------------|---------|-----|--------|
| Oral | LD ₅₀ | 2000≤5000 mg/kg | | Rat | | |
| Dermal | LD ₅₀ | 2.000≤5000 mg/kg | | Rat | | |
| Inhalation | LC ₅₀ | 5.16 mg/l | | Rat | | |

tin

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Source |
|-------------------|------------------|------------------|------------------|-------------------------|-----|--------|
| Oral | LD ₅₀ | 2000-≤5000 mg/kg | | Rat (Rattus norvegicus) | | |
| Dermal | LD ₅₀ | 2000-≤5000 mg/kg | | Rat (Rattus norvegicus) | | |
| Inhalation | LC ₅₀ | >4.75 mg/l | | Rat (Rattus norvegicus) | | |

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

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Reproductive toxicity

May damage fertility. May damage the unborn child.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Very toxic to aquatic life with long lasting effects.

1,2-bis(2-methoxyethoxy) ethane

| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|------------------|----------|------------|------------------|---------------------|-------------|--------|
| LC ₅₀ | OECD 203 | >5000 mg/l | 96 hour | Fishes (Zebra fish) | Freshwater | |
| EC ₅₀ | OECD 202 | >5000 mg/l | 48 hour | Daphnia | | |
| EC ₅₀ | OECD 201 | >6000 mg/l | 72 hour | Algae | | |

2-(2-butoxyethoxy) ethanol

| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|------------------|--------|------------|------------------|----------------|-------------|--------|
| EC ₅₀ | | >100 mg/l | 48 hour | Daphnia magna | | |
| LC ₅₀ | | 2.750 mg/l | 48 hour | Leuciscus idus | | |

Alcohols, C12-15, Ethoxylated

| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|------------------|--------|-----------|------------------|--|-------------|--------|
| LC ₅₀ | | 3620 µg/l | 96 hour | Fishes (Pimephales promelas) | | |
| EC ₅₀ | | 1400 µg/l | 48 hour | Invertebrates (Daphnia magna) | | |
| EC ₅₀ | | 0.7 mg/l | 96 hour | Algae and other aquatic plants (Pseudokirchneriella subcapitata) | | |
| NOEC | | 83 µg/l | 21 day | Invertebrates (Daphnia magna) | Freshwater | |

rosin; colophony

| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|------------------|----------|-----------|------------------|--------------------|-------------|--------------|
| LC ₅₀ | OECD 203 | 60.3 mg/l | 96 hour | Branchydanio rerio | | Scheerbaum D |

silver

| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|-----------|--------|------------|------------------|----------------------------|-------------|--------|
| NOEC | | 0.13 mg/l | 28 day | Fishes (Menidia beryllina) | | |
| NOEC | | 0.001 mg/l | 7 day | Crustaceans | | |

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silver

| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|-----------|--------|-------------|------------------|---------|-------------|--------|
| NOEC | | 0.0012 mg/l | 14 day | Algae | | |

tin

| Parameter | Method | Value | Time of exposure | Species | Environment | Source |
|------------------|--------|------------|------------------|------------------------------------|-------------|--------|
| EC ₅₀ | | 1.303 mg/l | | Invertebrates (Ceriodaphnia dubia) | | |

12.2. Persistence and degradability

Biodegradability

1,2-bis(2-methoxyethoxy) ethane

| Parameter | Value | Time of exposure | Environment | Result |
|-----------|-------|------------------|-------------|----------------------|
| | | | | Hardly biodegradable |

2-(2-butoxyethoxy) ethanol

| Parameter | Value | Time of exposure | Environment | Result |
|-----------|-------|------------------|-------------|----------------------|
| | | | | Easily biodegradable |

lead

| Parameter | Value | Time of exposure | Environment | Result |
|-----------|-------|------------------|-------------|----------------------|
| | | | | Hardly biodegradable |

rosin; colophony

| Parameter | Value | Time of exposure | Environment | Result |
|-----------|-------|------------------|-------------|----------------------|
| | 80 % | 28 day | | Easily biodegradable |

Not available.

12.3. Bioaccumulative potential

1,2-bis(2-methoxyethoxy) ethane

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| Log Pow | -0.48 | | | | |

2-(2-butoxyethoxy) ethanol

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| Log Kow | 0.56 | | | | 25°C |

rosin; colophony

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|---------|------------------|---------|-------------|------------------------------|
| Log Pow | 1.9-7.7 | | | | |

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silver

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| BCF | 70 | | | | |

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ołów/lead)

14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not available

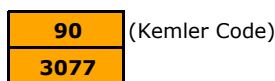
Additional information

Hazard identification No.

UN number

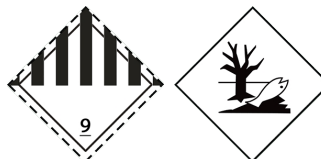
Classification code

Safety signs



M7

9+hazardous for the environment



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Road transport - ADR

Special provision 274, 335, 601
Limited quantities 5 kg

Packaging

Packing instructions P002, IBC08, LP02, R001
Special provision for packaging PP12, B3
Mixed packing provisions MP10

Portable tanks and bulk containers

Guidelines T1, BK1, BK2, BK3
Special provision TP33

ADR tank

Tank code SGAV, LGBV
Vehicles for tank carriage AT
Transport category 3
Tunnel restriction code (-)

Special provision for

packages V13
bulk VV1
loading, unloading and handling CV13

Railway transport - RID

Special provision 274, 335, 601

Packaging

Packing instructions P002, IBC08, LP02, R001
Special provision for packaging PP12, B3
Mixed packing provisions MP10

Portable tanks and bulk containers

Guidelines T1, BK1, BK2, BK3
Special provision TP33

RID Tanks

Tank code SGAV, LGBV
Transport category 0

Special provision for

packages W 13
bulk VW 1
loading, unloading and handling CW 13

Air transport - ICAO/IATA

Packaging instructions for limited amount Y956
Packaging instructions passenger 956
Cargo packaging instructions 956

Marine transport - IMDG

EmS (emergency plan) F-A, S-F

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

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Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

1,2-bis(2-methoxyethoxy) ethane

| Restriction | Conditions of restriction |
|-------------|---|
| 30 | <p>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</p> <p>1. Shall not be placed on the market, or used,</p> <ul style="list-style-type: none"> – as substances, – as constituents of other substances, or, – in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: <ul style="list-style-type: none"> – either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, – the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:</p> <p>“Restricted to professional users”.</p> <p>2. By way of derogation, paragraph 1 shall not apply to:</p> <ul style="list-style-type: none"> (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: <ul style="list-style-type: none"> – motor fuels which are covered by Directive 98/70/EC, – mineral oil products intended for use as fuel in mobile or fixed combustion plants, – fuels sold in closed systems (e.g. liquid gas bottles); (d) artists’ paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. |

2-(2-butoxyethoxy) ethanol

| Restriction | Conditions of restriction |
|-------------|--|
| 55 | <p>1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.</p> <p>2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.</p> <p>3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:</p> <p>“Do not use in paint spraying equipment”.</p> |

lead

| Restriction | Conditions of restriction |
|-------------|--|
| 63 | <p>1. Shall not be placed on the market or used in any individual part of jewellery articles if the concentration of lead (expressed as metal) in such a part is equal to or greater than 0,05 % by weight.</p> <p>2. For the purposes of paragraph 1:</p> <ul style="list-style-type: none"> (i) “jewellery articles” shall include jewellery and imitation jewellery articles and hair accessories, including: <ul style="list-style-type: none"> (a) bracelets, necklaces and rings; (b) piercing jewellery; (c) wrist watches and wrist-wear; (d) brooches and cufflinks; (ii) “any individual part” shall include the materials from which the jewellery is made, as well as the individual components of the jewellery articles. <p>3. Paragraph 1 shall also apply to individual parts when placed on the market or used for jewellery-making.</p> <p>4. By way of derogation, paragraph 1 shall not apply to:</p> |

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lead

| Restriction | Conditions of restriction |
|-------------|--|
| | <p>(a) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EEC (*);</p> <p>(b) internal components of watch timepieces inaccessible to consumers;</p> <p>(c) non-synthetic or reconstructed precious and semiprecious stones (CN code 7103, as established by Regulation (EEC) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these substances;</p> <p>(d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted at a temperature of at least 500 °C.</p> <p>5. By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time before 9 October 2013 and jewellery articles produced before 10 December 1961.</p> <p>6. By 9 October 2017, the Commission shall re-evaluate paragraphs 1 to 5 of this entry in the light of new scientific information, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</p> <p>7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead (expressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and those articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in the mouth by children.</p> <p>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm² per hour (equivalent to 0,05 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the article.</p> <p>For the purposes of this paragraph, it is considered that an article or accessible part of an article may be placed in the mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</p> <p>8. By way of derogation, paragraph 7 shall not apply to:</p> <p>(a) jewellery articles covered by paragraph 1;</p> <p>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</p> <p>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substances;</p> <p>(d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted at a temperature of at least 500 °C;</p> <p>(e) keys and locks, including padlocks;</p> <p>(f) musical instruments;</p> <p>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the brass alloy does not exceed 0,5 % by weight;</p> <p>(h) the tips of writing instruments;</p> <p>(i) religious articles;</p> <p>(j) portable zinc-carbon batteries and button cell batteries;</p> <p>(k) articles within the scope of:</p> <p>(i) Directive 94/62/EC;</p> <p>(ii) Regulation (EC) No 1935/2004;</p> <p>(iii) Directive 2009/48/EC of the European Parliament and of the Council (*);</p> <p>(iv) Directive 2011/65/EU of the European Parliament and of the Council (**)</p> <p>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of new scientific information, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</p> <p>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 June 2016.</p> |

15.2. Chemical safety assessment

not available

SECTION 16: Other information

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A list of standard risk phrases used in the safety data sheet

| | |
|--------|---|
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H360FD | May damage fertility. May damage the unborn child. |
| H360Df | May damage the unborn child. Suspected of damaging fertility. |
| 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. |

Guidelines for safe handling used in the safety data sheet

| | |
|-----------|--|
| P201 | Obtain special instructions before use. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P391 | Collect spillage. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |

A list of additional standard phrases used in the safety data sheet

| | |
|---------|-------------------------------|
| EUH 019 | May form explosive peroxides. |
|---------|-------------------------------|

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|------------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC | Identification code for each substance listed in EINECS |
| EC ₅₀ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| IC ₅₀ | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| LOAEC | Lowest observed adverse effect concentration |
| LOAEL | Lowest observed adverse effect level |
| log Kow | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution From Ships |
| NOAEC | No observed adverse effect concentration |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |

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| | |
|------|---|
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |

| | |
|-----------------|--|
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Hazardous to the aquatic environment |
| Aquatic Chronic | Hazardous to the aquatic environment |
| Eye Irrit. | Eye irritation |
| Repr. | Reproductive toxicity |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity - repeated exposure |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornyčková, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.