

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 2020.06.03

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Elastic 50A Resin

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

1.1 Product identifier

Product Name: Elastic 50A Resin

Product code: FLELCL01

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

Relevant identified uses: For use in Formlabs SLA Printers

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

United States

Formlabs, Inc

35 Medford St

Suite 201 Somerville, MA 02143

+1 617 855 0762

sds@formlabs.com

Supplier:

Germany

Formlabs GmbH

Nalepastr. 18

12459 Berlin

+49 30 555 795 880

1.4 Emergency telephone number:

1-800-424-9300 (24/7)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Skin irritation, category 2

Serious eye damage, category 1

Skin sensitization, category 1

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Chronic aquatic hazard, category 1

Hazard-determining components of labeling:

Isobornyl acrylate

Acrylate Monomer(s)

Additional Information: None

2.2 Label elements

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

Hazard pictograms:



Signal word: Danger

Hazard statements:

H315 Causes skin irritation

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- H318 Causes serious eye damage
- H317 May cause an allergic skin reaction
- H335 May cause respiratory irritation
- H410 Very toxic to aquatic life with long lasting effects

Precautionary statements:

- P264 Wash skin thoroughly after handling
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray
- P272 Contaminated work clothing should not be allowed out of the workplace
- P271 Use only outdoors or in a well-ventilated area
- P273 Avoid release to the environment
- P302+P352 IF ON SKIN: Wash with plenty of soap and water
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P362 Take off contaminated clothing
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention
- P363 Wash contaminated clothing before reuse
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P391 Collect spillage
- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/container in accordance with local/regional/national regulations

2.3 Other hazards: None known

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

| Identification | REACH Registration No. | Name | Classification according to Regulation (EC) No. 1272/2008 (CLP) | Weight % |
|---|------------------------|---------------------|--|----------|
| CAS number: 5888-33-5 EC number: 227-561-6 | - | Isobornyl acrylate | Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3 (RI); H335 Aquatic Chronic 2; H411 | 15-25 |
| CAS number: Trade Secret EC number: Trade Secret | - | Acrylate Monomer(s) | Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 | 25-45 |

Additional information: None

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

Following inhalation:

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Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

Following skin contact:

Wash off immediately with soap and plenty of water while removing contaminated clothing and shoes. See a physician if irritation persists.

Following eye contact:

Immediately flush eyes, under eyelids with water for 15 minutes. Remove contact lenses, if easy to do so. Protect unexposed eye. Continue rinsing on the way to hospital.

Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by physician or poison control center. Rinse mouth with water. Never give anything to drink to an unconscious person. Seek medical advice.

Self-Protection of the first aider:

Not determined or not available.

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Symptoms may include blistering, irritation, burns and pain. Effects are dependent on exposure (dose, concentration, contact time).

Delayed symptoms and effects:

Symptoms of poisoning may appear several hours later.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

None known.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Alcohol- resistant foam, Dry chemical or Carbon dioxide

Unsuitable extinguishing media:

None known

5.2 Special hazards arising from the substance or mixture:

Evacuate all personnel to a predetermined safe location, no less than 2,500 feet in all directions. Can explode or detonate under fire conditions. Burning material may produce toxic vapors.

5.3 Advice for firefighters

Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

Special precautions:

Avoid inhaling gases, fumes, mist, dust, vapor or aerosols. Avoid contact with eyes, skin, hair or clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the

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environment must be avoided.

6.3 Methods and material for containment and cleaning up:

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

6.4 Reference to other sections:

For disposal see section 13.

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use

7.3 Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection



8.1 Control parameters

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

Ingredient Name: Isobornyl acrylate

CAS #: 5888-33-5

| | | |
|----------------------------|----------------------|-----------------------------------|
| Workers - Systemic Effects | Acute - Oral | Not determined or not applicable. |
| | Acute - Inhalation | No hazard identified |
| | Acute - Dermal | No hazard identified |
| | Chronic - Oral | Not determined or not applicable. |
| | Chronic - Inhalation | No hazard identified |
| | Chronic - Dermal | 1.39 mg/kg bw/day |

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| | | |
|---------------------------------------|----------------------|-----------------------------------|
| Workers - Local Effects | Acute - Oral | Not determined or not applicable. |
| | Acute - Inhalation | No hazard identified |
| | Acute - Dermal | No hazard identified |
| | Chronic - Oral | Not determined or not applicable. |
| | Chronic - Inhalation | No hazard identified |
| | Chronic - Dermal | No hazard identified |
| General Population - Systemic Effects | Acute - Oral | No hazard identified |
| | Acute - Inhalation | No hazard identified |
| | Acute - Dermal | No hazard identified |
| | Chronic - Oral | 0.83 mg/kg bw/day |
| | Chronic - Inhalation | No hazard identified |
| | Chronic - Dermal | 0.83 mg/kg bw/day |
| General Population - Local Effect | Acute - Oral | Not determined or not applicable. |
| | Acute - Inhalation | No hazard identified |
| | Acute - Dermal | No hazard identified |
| | Chronic - Oral | Not determined or not applicable. |
| | Chronic - Inhalation | No hazard identified |
| | Chronic - Dermal | No hazard identified |

Ingredient Name: Acrylate Monomer(s)

CAS #: Trade Secret

| | | |
|---------------------------------------|----------------------|---|
| Workers - Systemic Effects | Acute - Oral | Not determined or not applicable. |
| | Acute - Inhalation | No hazard identified |
| | Acute - Dermal | No hazard identified |
| | Chronic - Oral | Not determined or not applicable. |
| | Chronic - Inhalation | No hazard identified |
| | Chronic - Dermal | 8.2 mg/kg bw/day |
| Workers - Local Effects | Acute - Oral | Not determined or not applicable. |
| | Acute - Inhalation | 3 mg/m ³ |
| | Acute - Dermal | Hazard identified but no DNEL available |
| | Chronic - Oral | Not determined or not applicable. |
| | Chronic - Inhalation | 3 mg/m ³ |
| | Chronic - Dermal | Hazard identified but no DNEL available |
| General Population - Systemic Effects | Acute - Oral | No hazard identified |
| | Acute - Inhalation | No hazard identified |
| | Acute - Dermal | No hazard identified |
| | Chronic - Oral | No hazard identified |
| | Chronic - Inhalation | No hazard identified |
| | Chronic - Dermal | No hazard identified |

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| | | |
|--------------------------------------|----------------------|-----------------------------------|
| General Population - Local Effect | Acute - Oral | Not determined or not applicable. |
| | Acute - Inhalation | No hazard identified |
| | Acute - Dermal | No hazard identified |
| | Chronic - Oral | Not determined or not applicable. |
| | Chronic - Inhalation | No hazard identified |
| | Chronic - Dermal | No hazard identified |

Predicted No Effect Concentration (PNEC):

Ingredient Name: Isobornyl acrylate

CAS #: 5888-33-5

| Environmental Protection Target | PNEC |
|------------------------------------|----------------------------------|
| Fresh water | 0.001 mg/L |
| Freshwater sediments | 0.145 mg/kg |
| Marine water | 0 mg/L |
| Marine sediments | 0.015 mg/kg |
| Food chain | Not determined or not available. |
| Microorganisms in sewage treatment | 2 mg/L |
| Soil (agricultural) | 0.029 mg/kg |
| Air | No hazard identified |

Ingredient Name: Acrylate Monomer(s)

CAS #: Trade Secret

| Environmental Protection Target | PNEC |
|------------------------------------|----------------------------------|
| Fresh water | 0.014 mg/L |
| Freshwater sediments | 0.086 mg/kg |
| Marine water | 0.001 mg/L |
| Marine sediments | 0.009 mg/kg |
| Food chain | Not determined or not available. |
| Microorganisms in sewage treatment | 10 mg/L |
| Soil (agricultural) | 0.037 mg/kg |
| Air | No hazard identified |

Information on monitoring procedures:

Not determined or not applicable.

8.2 Exposure controls

Appropriate engineering controls:

Effective ventilation in all processing areas.

Personal protection equipment

Eye and face protection:

Safety goggles

Skin and body protection:

Impervious clothing and chemical resistant gloves

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory protection

General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday.

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Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

| | |
|---|-----------------------------------|
| Product (substance / mixture) related measures to prevent exposure: | Not determined or not applicable. |
| Instruction measures to prevent exposure: | Not determined or not applicable. |
| Organizational measures to prevent exposure: | Not determined or not applicable. |
| Technical measures to prevent exposure: | Not determined or not applicable. |

Risk management measures to control exposure:

Not determined or not applicable.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|----------------------------------|
| Appearance | Transparent Violet Liquid |
| Odor | Characteristic acrylate |
| Odor threshold | Not determined or not available. |
| pH | Not determined or not available. |
| Melting point/freezing point | Not determined or not available. |
| Initial boiling point/range | > 100°C |
| Flash point (closed cup) | > 93.5°C |
| Evaporation rate | Not determined or not available. |
| Flammability (solid, gas) | Not Flammable |
| Upper flammability/explosive limit | Not determined or not available. |
| Lower flammability/explosive limit | Not determined or not available. |
| Vapor pressure | Not determined or not available. |
| Vapor density | Not determined or not available. |
| Density | 1.02 g/cm ³ |
| Relative density | Not determined or not available. |
| Solubilities | Not determined or not available. |
| Partition coefficient (n-octanol/water) | Not determined or not available. |
| Auto/Self-ignition temperature | Not determined or not available. |
| Decomposition temperature | Not determined or not available. |
| Dynamic viscosity | Not determined or not available. |
| Kinematic viscosity | 2950 @ 35°C |
| Explosive properties | Not determined or not available. |
| Oxidizing properties | Not determined or not available. |

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity:

Does not react under normal conditions of use and storage.

10.2 Chemical stability:

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Stable under normal storage and handling conditions.

10.3 Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid:

Incompatible materials.

Avoid storage >38°C (100°F) and exposure to light/direct sunlight and heat.

10.5 Incompatible materials:

Strong oxidizing agents.

Polymerization initiators, including peroxides, strong oxidizing agents, alcohols, copper, copper alloys, carbon steel, iron, rust, and strong bases.

10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

| Name | Route | Result |
|---------------------|--------|---------------------------|
| Isobornyl acrylate | oral | LD50 Rat: 4890 mg/kg |
| | dermal | LD50 Rabbit : >5000 mg/kg |
| Acrylate Monomer(s) | oral | LD50 Rat : 830 mg/kg |
| | dermal | LD50 Rabbit: 520 mg/kg |

Skin corrosion/irritation

Assessment:

Causes skin irritation.

Product data:

No data available.

Substance data:

| Name | Result |
|---------------------|-------------------------|
| Isobornyl acrylate | Causes skin irritation. |
| Acrylate Monomer(s) | Causes skin irritation. |

Serious eye damage/irritation

Assessment:

Causes serious eye damage.

Product data:

No data available.

Substance data:

| Name | Result |
|---------------------|--------------------------------|
| Isobornyl acrylate | Causes serious eye irritation. |
| Acrylate Monomer(s) | Causes serious eye damage. |

Respiratory or skin sensitization

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Assessment:

May cause an allergic skin reaction.

Product data:

No data available.

Substance data:

| Name | Result |
|---------------------|--------------------------------------|
| Isobornyl acrylate | May cause an allergic skin reaction. |
| Acrylate Monomer(s) | May cause an allergic skin reaction. |

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment:

May cause respiratory irritation.

Product data:

No data available.

Substance data:

| Name | Result |
|--------------------|-----------------------------------|
| Isobornyl acrylate | May cause respiratory irritation. |

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

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Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Assessment:

Very toxic to aquatic life with long lasting effects.

Product data: No data available.

Substance data: No data available.

12.2 Persistence and degradability

Product data: No data available.

Substance data: No data available.

12.3 Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

12.4 Mobility in soil

Product data: No data available.

Substance data: No data available.

12.5 Results of PBT and vPvB assessment

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

12.6 Other adverse effects: No data available.

12.7 Hazard to the ozone layer

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal: Not determined or not available.

Waste codes / waste designations according to LoW: Not determined or not available.

13.1.2 Waste treatment-relevant information: Not determined or not available.

13.1.3 Sewage disposal-relevant information: Not determined or not available.

13.1.4 Other disposal recommendations: It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number

UN 3082



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| | |
|-------------------------------|--|
| UN proper shipping name | Environmentally hazardous liquid, N.O.S. Methacrylate Polymer |
| UN transport hazard class(es) | 9   |
| Packing group | III |
| Environmental hazards | Marine Pollutant |
| Special precautions for user | None |
| Additional Information | This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 |



International Carriage of Dangerous Goods by Inland Waterways (ADN)

| | |
|-------------------------------|--|
| UN number | UN 3082 |
| UN proper shipping name | Environmentally hazardous liquid, N.O.S. Methacrylate Polymer |
| UN transport hazard class(es) | 9   |
| Packing group | III |
| Environmental hazards | Marine Pollutant |
| Special precautions for user | None |
| Additional Information | This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 |

International Maritime Dangerous Goods (IMDG)

| | |
|-------------------------------|--|
| UN number | UN 3082 |
| UN proper shipping name | Environmentally hazardous liquid, N.O.S. Methacrylate Polymer |
| UN transport hazard class(es) | 9   |
| Packing group | III |
| Environmental hazards | Marine Pollutant |
| Special precautions for user | None |
| Additional Information | This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| | |
|-------------------------------|---|
| UN number | UN 3082 |
| UN proper shipping name | Environmentally hazardous liquid, N.O.S. Methacrylate Polymer |
| UN transport hazard class(es) | 9   |
| Packing group | III |

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| | |
|------------------------------|---|
| Environmental hazards | Marine Pollutant |
| Special precautions for user | None |
| Additional Information | This product is not regulated as a dangerous good when transported in sizes of $\leq 5L$ or $5 \leq kg$ provided the packaging meet the general provisions of 5.0.2.4.1, 5.0.2.6.1 and 5.0.2.8. |

| | |
|--|------|
| Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| Bulk Name | None |
| Ship type | None |
| Pollution category | None |

SECTION 15: Regulatory information

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

European regulations

Inventory listing (EINECS):

| | | |
|--------------|---------------------|--------|
| 5888-33-5 | Isobornyl acrylate | Listed |
| Trade Secret | Acrylate Monomer(s) | Listed |

REACH SVHC candidate list:

| | | |
|--------------|---------------------|------------|
| 5888-33-5 | Isobornyl acrylate | Not Listed |
| Trade Secret | Acrylate Monomer(s) | Not Listed |

REACH SVHC Authorizations:

| | | |
|--------------|---------------------|------------|
| 5888-33-5 | Isobornyl acrylate | Not Listed |
| Trade Secret | Acrylate Monomer(s) | Not Listed |

REACH Restriction:

| | | |
|--------------|---------------------|------------|
| 5888-33-5 | Isobornyl acrylate | Not Listed |
| Trade Secret | Acrylate Monomer(s) | Not Listed |

Water hazard class (WGK) (Product):

Water hazard class (WGK) (Substance):

| Ingredient Name | CAS | Class |
|---------------------|--------------|--|
| Isobornyl acrylate | 5888-33-5 | Water hazard class 2: obviously hazardous to water |
| Acrylate Monomer(s) | Trade Secret | Water hazard class 1: slightly hazardous to water |

Other regulations

Germany TA Luft:

| Ingredient Name | CAS | Class | Base Emission Rate | Max Concentration |
|---------------------|--------------|----------------|--------------------|-------------------|
| Isobornyl acrylate | 5888-33-5 | Not Applicable | | |
| Acrylate Monomer(s) | Trade Secret | Not Applicable | | |

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Abbreviations and Acronyms: None

Classification procedure:

| Classification according to Regulation (EC) No. 1272/2008 (CLP) | Method Used |
|--|---|
| Skin irritation, category 2 | Calculation method |
| Serious eye damage, category 1 | Calculation method |
| Skin sensitization, category 1 | Calculation method |
| Specific target organ toxicity - single exposure, category 3, respiratory tract irritation | Calculation method |
| Chronic aquatic hazard, category 1 | Bridging principle substantially similar mixtures |

Summary of classification(s) in section 3:

| | |
|-------------------|--|
| Skin Irrit. 2 | Skin irritation, category 2 |
| Eye Irrit. 2 | Eye Irritation, category 2 |
| STOT SE 3 (RI) | Specific target organ toxicity - single exposure, category 3, respiratory tract irritation |
| Aquatic Chronic 2 | Chronic aquatic hazard, category 2 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| Eye Dam. 1 | Serious eye damage, category 1 |

Summary of hazard statements in section 3:

| | |
|------|---|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H411 | Toxic to aquatic life with long lasting effects |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |

Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP) and EC No. 1907/2006 (REACH). The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation, and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet