SAFETY DATA SHEET
according to the Globally Harmonized System and US regulation

PRO CATALYST POWDER

1. IDENTIFICATION

Product name: PRO CATALYST POWDER
Product Use Description: Specific use(s): Curing agent
Supplier: Siplast
1000 Rochelle Blvd Irving, TX 75062
USA
1-800-922-8800

Emergency telephone: 24 hours: CHEMTREC
1-800-424-9300 (USA & Canada)
1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Emergency Overview

| Appearance | powder |
| Color      | white  |
| Odor       | Faint. |
| Hazard Summary | Risk of dust explosion. |

GHS Classification

Organic peroxides, Type D
Eye irritation, Category 2B
Skin sensitization, Category 1
Short-term (acute) aquatic hazard, Category 1
Long-term (chronic) aquatic hazard, Category 1

GHS label elements

Hazard pictograms

Signal Word: Danger

Hazard Statements
H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H320 Causes eye irritation.
PRO CATALYST POWDER

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P220 Keep/Store away from clothing/combustible materials.
- P234 Keep only in original container.
- P235 Keep cool.
- P261 Avoid breathing dust or fume.
- P264 Wash skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/eye protection/face protection.

Response:
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- 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.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
- P391 Collect spillage.

Storage:
- P410 Protect from sunlight.
- P420 Store away from other materials.

Disposal:
- P501 Dispose of contents/container in accordance with local regulation.

Carcinogenicity:

IARC:
- No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA:
- No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

NTP:
- No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration [% W/W]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol dibenzoate</td>
<td>94-49-5</td>
<td>Aquatic Chronic 2; H411</td>
<td>48 - 52</td>
</tr>
<tr>
<td>Dibenzoyl peroxide</td>
<td>94-36-0</td>
<td>Org. Perox. B; H241 Eye Irrit. 2B; H320 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute); 10 M-Factor (Chronic); 10</td>
<td>48 - 52</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.

Inhalation : Remove to fresh air. Keep patient warm and at rest. Rinse nose and mouth with water.

Skin contact : Take off contaminated clothing and shoes immediately. Wash the skin immediately with soap and water. If skin irritation persists, call a physician.

Eye contact : Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Obtain medical attention.

Ingestion : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

Notes to physician

Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

Risks : May cause an allergic skin reaction. Causes eye irritation.
5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting / Specific hazards arising from the chemical: CAUTION: reignition may occur. Supports combustion. Do not use a solid water stream as it may scatter and spread fire. Water spray may be ineffective unless used by experienced firefighters. Do not allow run-off from fire fighting to enter drains or water courses. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. Hazardous decomposition products formed under fire conditions.

Combustion products: Fire will produce smoke containing hazardous combustion products (see section 10).

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures


Emergency measures on accidental release: Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorized persons entering the zone.

Environmental precautions: Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up / Methods for containment:
- Soak up with inert absorbent material and dispose of as hazardous waste.
- Keep wetted with water.
- Confinement must be avoided.
- Pick up and arrange disposal without creating dust.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.

Reference to other sections:
- For disposal considerations see section 13.
- For personal protection see section 8.

7. HANDLING AND STORAGE

Handling
Advice on safe handling:
- For personal protection see section 8.
- Avoid formation of respirable particles.
- Do not breathe vapors/dust.
- Avoid contact with skin, eyes and clothing.
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Smoking, eating and drinking should be prohibited in the application area.
- Open drum carefully as content may be under pressure.
- Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion:
- Use explosion protected equipment.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Keep away from sources of ignition - No smoking.
- No sparking tools should be used.
- Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps).
- Do not cut or weld on or near this container even when empty.
- Keep away from combustible material.

Temperature class:
- It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded.

Storage
Requirements for storage areas and containers:
- No smoking.
- Keep in a well-ventilated place.
- Keep in a dry place.
- Electrical installations / working materials must comply with the technological safety standards.
- Store at room temperature in the original container.
- Keep only in original container.
- Store away from other materials.

Maximum storage temperature:
- 25 °C (77 °F)

Other data:
- Do not allow to dry out.
## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

#### Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
<th>Form of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibenzoyl peroxide</td>
<td>94-36-0</td>
<td>TWA 5 mg/m³</td>
<td>2013-03-01</td>
<td>ACGIH</td>
<td></td>
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<td>Further info</td>
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<td>URT irr:</td>
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<td>Upper Respiratory Tract irritation</td>
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<td>Skin irritation</td>
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<td></td>
<td></td>
<td>A4: Not classifiable as a human carcinogen</td>
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<td></td>
<td></td>
<td>TWA 5 mg/m³</td>
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<td>NIOSH REL</td>
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<tr>
<td></td>
<td></td>
<td>TWA 5 mg/m³</td>
<td>1997-08-04</td>
<td>OSHA Z-1</td>
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<td></td>
<td>TWA 5 mg/m³</td>
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<td>OSHA P0</td>
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<tr>
<td>PEL</td>
<td></td>
<td>TWA 5 mg/m³</td>
<td>2014-11-26</td>
<td>CAL PEL</td>
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<td></td>
</tr>
<tr>
<td>Dust</td>
<td></td>
<td>TWA 50 Million particles per cubic foot</td>
<td>2012-07-01</td>
<td>OSHA Z-3</td>
<td>total dust</td>
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<td>Further info</td>
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<td>a. Based on impinger samples counted by light-field techniques</td>
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<td></td>
<td></td>
<td>d. All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.</td>
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<td>mppcf X 35.3 = million particles per cubic meter = particles per c.c</td>
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<tr>
<td>Dust</td>
<td></td>
<td>TWA 15 mg/m³</td>
<td>2012-07-01</td>
<td>OSHA Z-3</td>
<td>total dust</td>
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<td></td>
<td></td>
<td>Further info</td>
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<td>d. All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.</td>
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<td></td>
<td></td>
<td>TWA 15 Million particles per cubic foot</td>
<td>2012-07-01</td>
<td>OSHA Z-3</td>
<td>respirable fraction</td>
<td></td>
</tr>
<tr>
<td>Dust</td>
<td></td>
<td>Further info</td>
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<tr>
<td></td>
<td></td>
<td>d. All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.</td>
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<td></td>
<td></td>
<td>PEL 10 mg/m³</td>
<td>2014-11-26</td>
<td>CAL PEL</td>
<td>Total dust</td>
<td></td>
</tr>
<tr>
<td>Dust</td>
<td></td>
<td>PEL 5 mg/m³</td>
<td>2014-11-26</td>
<td>CAL PEL</td>
<td>respirable dust fraction</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td>Further info</td>
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<td>(n): The concentration and percentage of the particulate used for this limit are determined from the fraction passing a size selector with the following characteristics: Aerodynamic Diameter in Micrometers (unit density sphere)............. Percent Passing Selector 0</td>
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<td>100 1.00</td>
<td>97 2</td>
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<td>74 4</td>
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<td>30 6</td>
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<td>5 10.00</td>
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## Occupational exposure limits of decomposition products

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<tr>
<th>Decomposition products</th>
<th>CAS-No</th>
<th>Value</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
<th>Form of exposure</th>
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<tbody>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>TWA</td>
<td>0.5 ppm 2007-01-01</td>
<td>ACGIH</td>
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</tbody>
</table>

Further information: Leukemia: Leukemia BEI: Substances for which there is a Biological Exposure Index or Indices (see BEI® section) A1: Confirmed human carcinogen Skin: Danger of cutaneous absorption

| Further information | STEL | 2.5 ppm 2007-01-01 | ACGIH |

Further information: Leukemia: Leukemia BEI: Substances for which there is a Biological Exposure Index or Indices (see BEI® section) A1: Confirmed human carcinogen Skin: Danger of cutaneous absorption

| Further information | TWA | 0.1 ppm 2013-10-08 | NIOSH REL |
| Ca: Potential Occupational Carcinogen See Appendix A |

ST | 1 ppm 2013-10-08 | NIOSH REL |

Further information: Ca: Potential Occupational Carcinogen See Appendix A

| Further information | TWA | 10 ppm 2012-07-01 | OSHA Z-2 |
| Z37.40-1969 (a): This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028 |

CEIL | 25 ppm 2012-07-01 | OSHA Z-2 |

Further information: Z37.40-1969 (a): This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028

Peak | 50 ppm 2012-07-01 | OSHA Z-2 |

Further information: Z37.40-1969 (a): This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028

Further information: See 1910.1028. See Table Z-2 for the limits applicable in the operations or sectors excluded in 1910.1028 d: The final benzene standard in 1910.1028 applies to all occupational exposures to benzene except some subsegments of industry where exposures are consistently under the action level (i.e., distribution and sale of fuels, sealed containers and pipelines, coke production, oil and gas drilling and production, natural gas processing, and the percentage exclusion for liquid mixtures); for the excepted subsegments, the benzene limits in Table Z-2 apply

Further information: Substance listed; for more information see OSHA document 1910.1028 See Table Z-2 for the limits applicable in the operations or sectors excluded in 1910.1028 d: The final benzene standard in 1910.1028 applies to all occupational exposures to benzene except some subsegments of industry where exposures are consistently under the action level (i.e., distribution and sale of fuels, sealed containers and pipelines, coke production, oil and gas drilling and production, natural gas processing, and the percentage exclusion for liquid mixtures); for the excepted subsegments, the benzene limits in Table Z-2 apply. See 1910.1028 for specific circumstances.

| Further information | PEL | 1 ppm 2012-04-03 | OSHA |

7 / 24
Further information

1910.1028
This section applies to all occupational exposures to benzene. Chemical Abstracts Service Registry No. 71-43-2, except as provided in paragraphs (a)(2) and (a)(3) of this section. Paragraph (a)(2): This section does not apply to:

(i) The storage, transportation, distribution, dispensing, sale or use of gasoline, motor fuels, or other fuels containing benzene subsequent to its final discharge from bulk wholesale storage facilities, except that operations where gasoline or motor fuels are dispensed for more than 4 hours per day in an indoor location are covered by this section. (ii) Loading and unloading operations at bulk wholesale storage facilities which use vapor control systems for all loading and unloading operations, except for the provisions of 29 CFR 1910.1200 as incorporated into this section and the emergency provisions of paragraphs (g) and (i)(4) of this section. (iii) The storage, transportation, distribution or sale of benzene or liquid mixtures containing more than 0.1 percent benzene in intact containers or in transportation pipelines while sealed in such a manner as to contain benzene vapors or liquid, except for the provisions of 29 CFR 1910.1200 as incorporated into this section and the emergency provisions of paragraphs (g) and (i)(4) of this section. (iv) Containers and pipelines carrying mixtures with less than 0.1 percent benzene and natural gas processing plants processing gas with less than 0.1 percent benzene. (v) Work operations where the only exposure to benzene is from liquid mixtures containing 0.5 percent or less of benzene by volume, or the vapors released from such liquids until September 12, 1988; work operations where the only exposure to benzene is from liquid mixtures containing 0.3 percent or less of benzene by volume or the vapors released from such liquids from September 12, 1988, to September 12, 1989, and work operations where the only exposure to benzene is from liquid mixtures containing 0.1 percent or less of benzene by volume or the vapors released from such liquids after September 12, 1989; except that tire building machine operators using solvents with more than 0.1 percent benzene are covered by paragraph (i) of this section. (vi) Oil and gas drilling, production and servicing operations. (vii) Coke oven batteries. Paragraph (a)(3):
The cleaning and repair of barges and tankers which have contained benzene are excluded from paragraph (f) methods of compliance, paragraph (e)(1) exposure monitoring-general, and paragraph (e)(6) accuracy of monitoring. Engineering and work practice controls shall be used to keep exposures below 10 ppm unless it is proven to be not feasible.

Benzene (C$_6$H$_6$) (CAS Registry No. 71-43-2) means liquefied or gaseous benzene. It includes benzene contained in liquid mixtures and the benzene vapors released by these liquids. It does not include trace amounts of unreacted benzene contained in solid materials.

OSHA specifically regulated carcinogen

STEL
5 ppm
2012-04-03
OSHA CARC

Further information

1910.1028
This section applies to all occupational exposures to benzene. Chemical Abstracts Service Registry No. 71-43-2, except as provided in paragraphs (a)(2) and (a)(3) of this section. Paragraph (a)(2): This section does not apply to:

(i) The storage, transportation, distribution, dispensing, sale or use of gasoline, motor fuels, or other fuels containing benzene subsequent to its final discharge from bulk wholesale storage facilities, except that operations where gasoline or motor fuels are dispensed for more than 4 hours per day in an indoor location are covered by this section. (ii) Loading and unloading operations at bulk wholesale storage facilities which use vapor control systems for all loading and unloading operations, except for the provisions of 29 CFR 1910.1200 as incorporated into this section and the emergency provisions of paragraphs (g) and (i)(4) of this section. (iii) The storage, transportation, distribution or sale of benzene or liquid mixtures containing more than 0.1 percent benzene in intact containers or in transportation pipelines while sealed in such a manner as to contain benzene vapors or liquid, except for the provisions of 29 CFR 1910.1200 as incorporated into this section and the emergency provisions of paragraphs (g) and (i)(4) of this section. (iv) Containers and pipelines carrying mixtures with less than 0.1 percent benzene and natural gas processing plants processing gas with less than 0.1 percent benzene. (v) Work operations where the only exposure to benzene is from liquid mixtures containing 0.5 percent or less of benzene by volume, or the vapors released from such liquids until September 12, 1988; work operations where the only exposure to benzene is from liquid mixtures containing 0.3 percent or less of benzene by volume or the vapors released from such liquids from September 12, 1988, to September 12, 1989, and work operations where the only exposure to benzene is from liquid mixtures containing 0.1 percent or less of benzene by volume or the vapors released from such liquids after September 12, 1989; except that tire building machine operators using solvents with more than 0.1 percent benzene are covered by paragraph (i) of this section. (vi) Oil and gas drilling, production and servicing operations. (vii) Coke oven batteries. Paragraph (a)(3):
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OSHA specifically regulated carcinogen
work operations where the only exposure to benzene is from liquid mixtures containing 0.1 percent or less of benzene by volume or the vapors released from such liquids after September 12, 1989; except that tire building machine operators using solvents with more than 0.1 percent benzene are covered by paragraph (i) of this section. (vi) Oil and gas drilling, production and servicing operations. (vii) Coke oven batteries. Paragraph (a)(3): The cleaning and repair of barges and tankers which have contained benzene are excluded from paragraph (f) methods of compliance, paragraph (e)(1) exposure monitoring-general, and paragraph (e)(6) accuracy of monitoring. Engineering and work practice controls shall be used to keep exposures below 10 ppm unless it is proven to be not feasible. Benzene (C6H6) (CAS Registry No. 71-43-2) means liquefied or gaseous benzene. It includes benzene contained in liquid mixtures and the benzene vapors released by these liquids. It does not include trace amounts of unreacted benzene contained in solid materials.

OSHA specifically regulated carcinogen

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>TWA 5,000 ppm</td>
<td>2007-01-01 ACGIH</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>STEL 30,000 ppm</td>
<td>2007-01-01 ACGIH</td>
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Hazardous substance

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibenzoyl peroxide</td>
<td>94-36-0</td>
<td>Immediately Dangerous to Life or Health Concentration Value</td>
<td>1500 mg/m3</td>
<td>US IDLH</td>
<td>1995-03-01</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Explosion proof ventilation recommended.

Provide appropriate exhaust ventilation at places where dust is formed.

Ensure that eyewash stations and safety showers are close to the workstation location.
PRO CATALYST POWDER

Personal protective equipment
Eye/face protection: Tightly fitting safety goggles
Hand protection: Glove material: Neoprene
             : Glove material: Nitrile rubber
Skin and body protection: Protective suit
Respiratory protection: Use respiratory protection (air supplied respirator) unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.
                 When using do not eat or drink.
                 When using do not smoke.
                 Wash hands before breaks and at the end of workday.
                 Wash contaminated clothing before re-use.

Environmental exposure controls
General advice: Prevent product from entering drains.
               If the product contaminates rivers and lakes or drains inform respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form: powder
Color: white
Odor: Faint.
Odor Threshold: No data available

Safety data
pH: Not applicable
Melting point: Decomposes before melting.
Boiling point/boiling range: Decomposes below the boiling point.
Flash point: Above the SADT value
Evaporation rate: No data available
Flammability (solid, gas): No data available
Lower explosion limit: No data available
Upper explosion limit: No data available
Vapor pressure: Not applicable
Relative vapor density: Not applicable
Relative density: No data available
Bulk density: 640 kg/m³ at 20 °C
Water solubility: at 20 °C insoluble
Solubility in other solvents: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: Test method not applicable
Decomposition temperature: SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.
Self-Accelerating decomposition temperature (SADT): 55 °C
Viscosity, dynamic: No data available
Viscosity, kinematic: Not applicable
Explosive properties: Not explosive
Oxidizing properties: Not classified as oxidizing.
Active Oxygen Content: 3.3 %
Organic peroxides: 48 - 52 %

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Conditions to avoid: Do not allow to dry out. Confinement must be avoided. Heat, flames and sparks.

Materials to avoid: Contact with the following incompatible materials will result in hazardous decomposition:
- Acids and bases
- Iron
- Copper
- Reducing agents
- Heavy metals
- Rust
Do not mix with peroxide accelerators, unless under controlled
processing.
Use only stainless steel 316, PP, polyethylene or glass-lined equipment.
For queries regarding the suitability of other materials please contact the supplier.

Hazardous decomposition products: Carbon oxides
Benzoic acid
Benzene
Carbon dioxide

Thermal decomposition: SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.

Reactivity: Stable under normal conditions.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Dust may form explosive mixture in air.

Self-Accelerating decomposition temperature (SADT): 55 °C (131 °F)

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Hazard Summary:
Acute toxicity: Not classified based on available information.
Skin corrosion/irritation: Not classified based on available information.
Serious eye damage/eye irritation: Causes eye irritation.
Respiratory or skin sensitization:
Respiratory sensitization: Not classified based on available information.
Skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified based on available information.
Carcinogenicity: Not classified based on available information.
Reproductive toxicity: Not classified based on available information.
STOT-single exposure: Not classified based on available information.
STOT-repeated exposure: Not classified based on available information.
Aspiration hazard: Not classified based on available information.
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Potential Health Effects
Inhalation: Thermal decomposition can lead to release of irritating gases and vapors. Product dust may be irritating to respiratory system.

Skin: Product dust may be irritating to skin. May cause an allergic skin reaction. May cause skin irritation.

Eyes: Causes serious eye irritation.

Ingestion: May cause irritation of the mucous membranes.

Aggravated Medical Condition: None known.

Symptoms of Overexposure: The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

Toxicology Assessment
Further information: Inhalation may cause central nervous system effects. May cause damage to organs through prolonged or repeated exposure. Kidney immune system effects Suspected of damaging fertility or the unborn child. Expected to produce developmental effects. Blood effects Avoid skin contact. Do not breathe vapors/dust. Wear respiratory protection. Wear suitable protective clothing and gloves.

Carcinogenicity:
IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

TOXICOLOGY DATA FOR THE INGREDIENTS:

Component: Ethylene glycol dibenzoate

CMR effects: Carcinogenicity: Based on available data, the classification criteria are not met. Mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.
**Component: Dibenzoyl peroxide**

CMR effects:
- Carcinogenicity: Not carcinogenic.
- Mutagenicity: Not mutagenic.
- Teratogenicity: Did not show teratogenic effects in animal experiments.
- Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**Test result**

**Component: Ethylene glycol dibenzoate**

**Acute oral toxicity**
- LD50: > 2,000 mg/kg
- Species: Rat
- Method: OECD Test Guideline 423

**Skin irritation**
- Species: Rabbit
- Result: No skin irritation
- Method: OECD Test Guideline 404
- Exposure time: 4 h

**Eye irritation**
- Species: Rabbit
- Result: No eye irritation
- Method: OECD Test Guideline 405
- Exposure time: 1 h

**Sensitization**
- Local lymph node assay (LLNA)
- Species: Mouse
- Result: Not a skin sensitizer.
- Method: OECD Test Guideline 429

**Repeated dose toxicity**
- Species: Rat, male and female
- NOAEL: 300 mg/kg
- LOAEL: 1,000 mg/kg
- Application Route: Oral
- Exposure time: 92 d
- Number of exposures: 1 /day
- Method: OECD Test Guideline 422
- GLP: yes

**Germ cell mutagenicity**
- reverse mutation assay
  - Bacteria
  - Result: negative
  - Method: OECD Test Guideline 471

  Chromosome aberration test in vitro
  - Human lymphocytes
  - Result: negative
  - Method: OECD Test Guideline 473

  In vitro gene mutation study in mammalian cells
  - mouse lymphoma cells
  - Result: negative
Genotoxicity in vivo
Species: Mouse
Method: OECD Test Guideline 474
Dose: 2000 mg/kg total
Result: negative

Reproductive toxicity/Fertility
Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Application Route: Oral
Dose: 100, 300, 1000 mg/kg bw/day
Frequency of Treatment: 1 daily
General Toxicity Parent: NOAEL (No observed adverse effect level): 300 mg/kg bw/day
General Toxicity F1: NOAEL (No observed adverse effect level): 300 mg/kg bw/day
Method: OECD Test Guideline 422
GLP: yes
Result: Animal testing did not show any effects on fertility.

Reproductive toxicity/Development/Teratogenicity
Species: Rat, male and female
Application Route: Oral
General Toxicity Maternal: NOAEL (No observed adverse effect level): 300 mg/kg bw/day
Developmental Toxicity: NOAEL (No observed adverse effect level): 300 mg/kg bw/day
Method: OECD Test Guideline 422
GLP: yes
Result: No effects on fertility., No effects on reproduction parameters., Some evidence of adverse effects on development, based on animal experiments.

Component: Dibenzoyl peroxide
Acute oral toxicity
Species: Mouse
Method: OECD Test Guideline 401
LD50: > 2,000 mg/kg
LD50: > 5,000 mg/kg
Species: Rat

Acute inhalation toxicity
LC50 (Rat, male): > 24.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

Skin irritation
Species: Rabbit
Method: OECD Test Guideline 404
Exposure time: 4 h
Not irritating.

Eye irritation
Species: Rabbit
Result: Irritation to eyes, reversing within 7 days

Sensitization
Species: Guinea pig
Classification: May cause sensitization by skin contact.
Method: OECD Test Guideline 406
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Local lymph node assay (LLNA)
Species: Mouse
Classification: The product is a skin sensitizer, sub-category 1A.
Method: OECD Test Guideline 429

Germ cell mutagenicity
Genotoxicity in vitro
: In vitro gene mutation study in mammalian cells
  mouse lymphoma cells
  Result: negative
  Method: OECD Test Guideline 476

Genotoxicity in vivo
: Micronucleus test
  Species: Mouse
  Method: OECD Test Guideline 474
  Result: negative

Carcinogenicity
: Not classified due to data which are conclusive although insufficient for classification.

Reproductive toxicity/Fertility
: Test Type: reproductive and developmental toxicity study
  Species: Rat, male and female
  Application Route: Oral
  General Toxicity F1: NOAEL (No observed adverse effect level): 500 mg/kg bw/day
  Method: OECD Test Guideline 422
  GLP: yes

Reproductive toxicity/Development/Teratogenicity
: Species: Rat
  Application Route: Oral
  General Toxicity Maternal: NOAEL (No observed adverse effect level): 300 mg/kg bw/day
  Embryo-fetal toxicity: NOAEL (No observed adverse effect level): 300 mg/kg bw/day
  Method: OECD Test Guideline 414
  GLP: yes

Target Organ Systemic Toxicant - Single exposure
: Routes of exposure: Ingestion
  The substance or mixture is not classified as specific target organ toxicant, single exposure.

Target Organ Systemic Toxicant - Repeated exposure
: Routes of exposure: Ingestion
  The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity
: No aspiration toxicity classification

**12. ECOLOGICAL INFORMATION**

**PRODUCT INFORMATION:**

Ecotoxicology Assessment
Additional ecological
: Toxic to fish.
Further information on ecology

Hazardous to the ozone layer

Regulation:
40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks:
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

COMPONENTS:

Ecotoxicology Assessment

Component: Ethylene glycol dibenzoate

Long-term (chronic) aquatic hazard: Toxic to aquatic life with long lasting effects.

Test result

Component: Ethylene glycol dibenzoate

Ecotoxicity effects
Toxicity to fish:
- LC50: > 0.434 mg/l
- Exposure time: 96 h
- Species: Danio rerio (zebra fish)
- Test Type: static test
- Method: OECD Test Guideline 203
- No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates:
- EC50: > 2.4 mg/l
- Exposure time: 48 h
- Species: Daphnia magna (Water flea)
- Test Type: static test
- Method: OECD Test Guideline 202
- No toxicity at the limit of solubility.
- NOEC: 2.4 mg/l
- Exposure time: 48 h
- Species: Daphnia magna (Water flea)
- Test Type: static test
- Method: OECD Test Guideline 202
- No toxicity at the limit of solubility.

Toxicity to algae:
- ErC50: > 0.87 mg/l
- Exposure time: 72 h
- Species: Pseudokirchneriella subcapitata (green algae)
- Test Type: static test
- Method: OECD Test Guideline 201

information

Toxic to aquatic organisms.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.
Toxicity to bacteria

No toxicity at the limit of solubility.

NOEC: 0.045 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae)
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)

EC50: > 1,280 mg/l
Exposure time: 3 h
Species: activated sludge
Test Type: static test
Method: OECD Test Guideline 209

NOEC: 0.073 mg/l
Exposure time: 34 d mortality
Species: Danio rerio (zebra fish)
Test Type: semi-static test
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

EC10: 0.79 mg/l
Exposure time: 21 d reproduction rate
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211

NOEC: 0.65 mg/l
Exposure time: 21 d reproduction rate
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211

Elimination information (persistence and degradability)

Biodegradation: 81 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes
Readily biodegradable.

Component: Dibenzoyl peroxide

Ecotoxicity effects

Toxicity to fish

LC50: 0.06 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

EC50: 0.11 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Test Type: static test
Toxicity to algae

**M-Factor (Acute)**

- NOEC: 0.02 mg/l
- Exposure time: 72 h
- Species: Pseudokirchneriella subcapitata (green algae)
- Test Type: static test
- Method: OECD Test Guideline 201

**M-Factor (Chronic)**

- 10

Toxicity to bacteria

- EC50: 35 mg/l
- Exposure time: 0.5 h
- Species: activated sludge
- Test Type: Respiration inhibition
- Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

- EC10: 0.001 mg/l
- Exposure time: 21 d
- Reproduction rate
- Species: Daphnia magna (Water flea)
- Test Type: semi-static test
- Analytical monitoring: yes
- Method: OECD Test Guideline 211

Elimination information (persistence and degradability)

**Biodegradability**

- Test Type: Ready biodegradability
- Inoculum: activated sludge, non-adapted
- Concentration: 2 mg/l
- Result: Readily biodegradable.
- Testing period: 7 d
- Exposure time: 28 d
- Kinetic:
  - 7 d: 58 %
  - 15 d: 63 %
  - 21 d: 71 %
  - 28 d: 71 %
- Method: OECD Test Guideline 301D
- GLP: yes

13. DISPOSAL CONSIDERATIONS

**Product**

- The product should not be allowed to enter drains, water courses or the soil.
- Do not contaminate ponds, waterways or ditches with chemical or used container.
- Hazardous waste
- Dispose of contents/container in accordance with local regulation.

**Contaminated packaging**

- Empty remaining contents.
- Dispose of as unused product.
- Do not burn, or use a cutting torch on, the empty drum.
Due to the high risk of contamination recycling/recovery is not recommended.
Follow all warnings even after the container is emptied.

14. TRANSPORT INFORMATION

International Regulations

**IATA-DGR**
- UN/ID No.: UN 3106
- Proper shipping name: Organic peroxide type D, solid (Dibenzoyl peroxide)
- Class: 5.2
- Subsidiary risk: HEAT
- Packing group: Not Assigned
- Labels: 5.2 (HEAT)
- Packing instruction (cargo aircraft): 570
- Packing instruction (passenger aircraft): 570
- Environmentally hazardous: yes

**IMDG-Code**
- UN number: UN 3106
- Proper shipping name: ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)
- Class: 5.2
- Packing group: Not Assigned
- Labels: 5.2
- EmS Code: F-J, S-R
- Marine pollutant: yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

**49 CFR**
- UN/ID/NA number: UN 3106
- Proper shipping name: Organic peroxide type D, solid (Dibenzoyl peroxide, 50%)
- Class: 5.2
- Packing group: Not Assigned
- Labels: 5.2
- ERG Code: 145
- Marine pollutant: yes

Reportable Quantity: This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

15. REGULATORY INFORMATION

**Notification status**
- TCSI: YES. On the inventory, or in compliance with the inventory
- TSCA: YES. All substances listed as active on the TSCA inventory
- AICS: NO. Not in compliance with the inventory
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DSL : NO. This product contains one or several components that are not on the Canadian DSL nor NDSL.
ENCS : YES. On the inventory, or in compliance with the inventory
ISHL : YES. On the inventory, or in compliance with the inventory
KECI : NO. Not in compliance with the inventory
PICCS : NO. Not in compliance with the inventory
IECSC : NO. Not in compliance with the inventory
NZIoC : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviations, see section 16.

TSCA list

TSCA 5(a)(2) : The following substance(s) is/are subject to a Significant New Use Rule: Ethylene glycol dibenzoate
TSCA 12(b) : The following substance(s) is/are subject to TSCA 12(b) export notification requirements: Ethylene glycol dibenzoate

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Organic peroxides
Serious eye damage or eye irritation
Respiratory or skin sensitization

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Dibenzoyl peroxide 94-36-0 48 - 52 %

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).
This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know
Dibenzoyl peroxide 94-36-0

Pennsylvania Right To Know
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Dibenzoyl peroxide 94-36-0
Ethylene glycol dibenzoate 94-49-5

California Prop. 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Full text of H-Statements
H241: Heating may cause a fire or explosion.
H317: May cause an allergic skin reaction.
H320: Causes eye irritation.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.

Full text of other abbreviations
ACGIH: USA. ACGIH Threshold Limit Values (TLV)
CAL PEL: California permissible exposure limits for chemical contaminants (Title 8, Article 107)
NIOSH REL: USA. NIOSH Recommended Exposure Limits
OSHA CARC: OSHA Specifically Regulated Chemicals/Carcinogens
OSHA P0: USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1: USA, Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-2: USA, Occupational Exposure Limits (OSHA) - Table Z-2
OSHA Z-3: USA, Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

ACGIH / TWA: 8-hour, time-weighted average
ACGIH / STEL: Short-term exposure limit
CAL PEL / STEL: Short term exposure limit
CAL PEL / PEL: Permissible exposure limit
NIOSH REL / TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA CARC / PEL: Permissible exposure limit (PEL)
OSHA CARC / STEL: Excursion limit
OSHA P0 / TWA: 8-hour time weighted average
OSHA P0 / STEL: Short-term exposure limit
OSHA Z-1 / TWA: 8-hour time weighted average
OSHA Z-2 / TWA: 8-hour time weighted average
OSHA Z-2 / CEIL: Acceptable ceiling concentration
OSHA Z-2 / Peak: Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift
OSHA Z-3 / TWA: 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -
Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Further information

HMIS Classification
- Health Hazard: 2
- Chronic Health Hazard: /
- Flammability: 2
- Physical hazards: 3

NFPA Classification
- Health Hazard: 2
- Fire Hazard: 2
- Reactivity Hazard: 3

Notification status explanation

TCSI - Taiwan Chemical Substance Inventory (TCSI)
TSCA - United States TSCA Inventory
AICS - Australia Inventory of Chemical Substances (AICS)
DSL - Canadian Domestic Substances List (DSL)
ENCS - Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL - Japan. ISHL - Inventory of Chemical Substances
KECI - Korea. Korean Existing Chemicals Inventory (KECI)
PICCS - Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC - China. Inventory of Existing Chemical Substances in China (IECSC)
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NZloC New Zealand. Inventory of Chemical Substances

Further information
Revision Date 03/17/2020

This data sheet contains changes from the previous version in section(s):
Toxicological information
Ecological information

The information in this safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.