

SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name: PLASLITE PRC-10C
 Company Name: Denshijiki Industry Co., Ltd.
 Address: 5-6-20 Ukima, Kita-Ku, Tokyo
 Section in Charge: Development department
 Telephone: +81-3-5970-8681 Fax: +81-3-5970-8680
 Emergency Telephone: Same as the section in charge
 Issue Date: October 23, 2007 Revision Date: April 1, 2023
 Reference Number: SDS15120-23
 Product Code: 15120
 Recommended Uses and Restrictions on Use :Magnetic particle testing (water-based method)

2. Hazards Identification

GHS Classification

Physical Hazards	Self-reactive Substances and Mixtures	Classification not possible
	Self-heating Substances and Mixtures	Classification not possible
	Oxidizing Liquids	Classification not possible
	Corrosive to Metals	Classification not possible
Health Hazards	Acute Toxicity (Oral)	Classification not possible
	Acute Toxicity (Dermal)	Classification not possible
	Acute Toxicity (Inhalation: Vapors/mist)	Classification not possible
	Skin Corrosion/Irritation	Classification not possible
	Serious Eye Damage/Eye Irritation	Category 1
	Respiratory Sensitization	Classification not possible
	Skin Sensitization	Classification not possible
	Germ Cell Mutagenicity	Category 2
	Carcinogenicity	Classification not possible
	Reproductive Toxicity	Category 2
	Reproductive Toxicity/Effects on or via Breast-feed	Additional category
	Specific Target Organ Toxicity (Single Exposure)	Category 2 (blood)
	Specific Target Organ Toxicity (Repeated Exposure)	Classification not possible
	Aspiration Hazard	Classification not possible
Environmental Hazards	Hazardous to the Aquatic Environment— Short-term (Acute)	Category 2
	Hazardous to the Aquatic Environment— Long-term (Chronic)	Category 2
	Hazardous to the Ozone Layer	Classification not possible

GHS Label Elements

Pictograms or Symbols:



Signal Word:	Danger
Hazard Statements:	Causes serious eye damage Suspected of causing genetic defects Suspected of damaging fertility or the unborn child May cause harm to breast-fed children May cause damage to organs (blood) Toxic to aquatic life with long lasting effects
Precautionary Statements	
Prevention:	...Obtain special instructions (SDS) before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors/spray. Avoid contact during pregnancy and while nursing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/eye protection/face protection/protective clothing.
Response:	...Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. IF exposed or concerned: Call a doctor IF exposed or concerned: Get medical advice/attention.
Storage:	...Store locked up.
Disposal:	...Have the contents/container disposed of by a waste disposal contractor licensed by the national government or the prefectural governor.

3. Composition/Information on Ingredients

Classification of Substance or Mixture: Mixture

Chemical Name or Common Name	Content (%)	CAS No.	Reference Number in Gazetted List (Chemical Substances Control Act/Industrial Safety and Health Act)
Polyoxyethylene decyl ether (polyoxyethylene alkyl ether)	8.0	26183-52-8	7-97
Polyether polyol (polyoxyethylene polyoxypropylene glycol)	4.0	9003-11-6	7-327
Sodium nitrite	3.0	7632-00-0	1-483
Silicone mixture (dimethyl silicone)	2.0	Not disclosed	Registered
1,2,3-benzotriazole	0.5	95-14-7	5-537
Water	82.5	-	-

4. First-aid Measures

IF INHALED	: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
IF ON SKIN	: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention.

- IF IN EYES : Rinse cautiously with clean water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse for at least 15 minutes, and then get medical attention.
- IF SWALLOWED : If the inside of the mouth is contaminated, wash thoroughly with water. Do NOT induce vomiting.

5. Fire-fighting Measures
- Extinguishing Media : Powder, foam, carbon dioxide, water spray
- Inappropriate Extinguishing Media : No information available.
- Specific Hazards : When fighting fire, avoid breathing fumes as the combustion gases include carbon monoxide and other toxic gases.
- Specific Extinguishing Methods : Perform fire-fighting from the windward side, and wear respiratory protection if needed. Remove containers from the fire area if safe to do so. To prevent the fire from spreading, remove nearby flammable materials if safe to do so.
- Protection of Fire-fighters : Wear appropriate protective equipment to avoid breathing toxic gases.

6. Accidental Release Measures
- Personal Precautions, Protective Equipment, and Emergency Procedures : When dealing with the released material, wear appropriate protective equipment (refer to Section 8. Exposure Controls/Personal Protection) to avoid contact with eyes and skin or inhalation of mist.
- Environmental Precautions : Be careful not to discharge into rivers or other bodies of water so as not to affect the environment.
- Methods and Materials for Containment and Cleaning Up : Collect the released material by absorbing it with earth, sand, sawdust, waste cloths, or other such materials.
- Secondary Disaster Prevention Measures : Leaving a floor wet with the released material makes it slippery and may cause a slip accident. Avoid walking over the released material.

7. Handling and Storage
- Handling
- Technical Measures : Take engineering measures and use protective equipment as described in Section 8. Exposure Controls/Personal Protection. Provide local and general ventilation as described in Section 8. Exposure Controls/Personal Protection.
- Precautions for Safe Handling : Do not get in eyes. Do not breathe mist, vapors, or spray. Avoid contact, inhalation, and ingestion. Wash hands thoroughly after handling.
- Storage
- Conditions for Storage : Store in a cool, well-ventilated place, away from direct sunlight. Keep container tightly closed. Store locked up if necessary.
- Packaging Materials : Keep in containers specified in the product specifications.

8. Exposure Controls/Personal Protection
- Control Levels : Not established.

Permissible Exposure Level	
Japan Society for Occupational Health	: No information available
ACGIH	: No information available
Engineering Measures	: In an indoor, inadequately ventilated workplace, provide local or general ventilation equipment. Provide a washbasin.
Protective Equipment	Wear the following protective equipment as needed:
Respiratory Protection	: Activated carbon, organic gas mask, etc.
Hand Protection	: Appropriate protective gloves (protective gloves)
Eye Protection	: Appropriate protective glasses (standard glasses or goggles)
Skin and Body Protection	: Appropriate protective clothing (protective clothing, work clothes with long sleeves)

9. Physical and Chemical Properties

Physical State	: Liquid
Color	: Milk white
Odor	: Slight odor
Melting Point/Freezing Point	: No data available
Boiling Point or Initial Boiling Point and Boiling Range	: No data available
Flammability	: Non-combustible
Upper/Lower Flammability or Explosive Limits	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
pH	: 7.0 to 9.5 (20°C)
Kinematic Viscosity	: No data available
Solubility	: Readily soluble in water
n-Octanol/Water Partition Coefficient (Log Value)	: No data available
Vapor Pressure	: No data available
Density or Relative Density	: 1.04 (25°C)
Relative Gas Density	: No data available
Particle Characteristics	: No data available

10. Stability and Reactivity

Chemical Reactivity and Stability	: Stable when stored at room temperature in a dark place.
Possibility of Hazardous Reactions	: May react with strong reducing agents. May react with amines in the presence of a strong acid.
Conditions to Avoid	: High temperature and contact with incompatible materials
Incompatible Materials	: Strong acid and reducing agents
Hazardous Decomposition Products	: Nitrogen oxides

11. Toxicological Information

- Acute Toxicity (Oral) : LD₅₀ = 5 g/kg (rat): polyether polyol
LD₅₀ = 77 to 150 mg/kg (rat): sodium nitrite
LD₅₀ = 560 mg/kg (rat): 1,2,3-benzotriazole
- Acute Toxicity (Dermal) : LD₅₀ > 2,000 mg/kg (rabbit): 1,2,3-benzotriazole
- Acute Toxicity (Inhalation) : No data available
- Skin Corrosion/
Irritation : Mild irritation, 500 mg/24h (rabbit): polyether polyol
- Serious Eye Damage
/Eye Irritation : Mild irritation, 500 mg/24h (rabbit): polyether polyol
Moderate redness, mild edema, etc.: sodium nitrite
- Respiratory
or Skin Sensitization : Respiratory Sensitization: No data available
Skin Sensitization: No data available
- Germ Cell Mutagenicity : The substance is reported to have tested positive in all of the following somatic cell in vivo mutagenicity tests: chromosomal aberration tests using the bone marrow of rats and mice to which the substance was given orally, a micronucleus test using the peripheral blood of mice after the substance was given orally, and a micronucleus test using the fetal cells of hamsters after the substance was given orally (SIDS (2005), IARC 94 (2010)).: sodium nitrite
- Carcinogenicity : No data available
- Reproductive Toxicity : In a developmental toxicity test where pregnant mice were orally given the substance in the period of organogenesis, significant decreases in the implantation rate and the average number of litters and significant increases in the mortality of young mice and the short-term mortality were observed at doses that inhibited the increase of the dams' weights (SIDS (2005)). In addition, it is reported that in a test where rats were orally given the substance in the period from the period of pregnancy to the period of breast-feed, an increase in the mortality of young rats and a decrease in the average number of litters at birth were observed (SIDS (2005)).: sodium nitrite
- Specific Target Organ
Toxicity
(Single Exposure) : A number of cases have been reported where the intake of or exposure to the substance caused methemoglobin formation in blood, cyanosis in some cases, or methemoglobinemia (SIDS (2005), JECFA 844 (1998), PIM G016 (1999)).: sodium nitrite
- Specific Target Organ
Toxicity
(Repeated Exposure) : There is a report on a 14-week repeated oral administration test (drinking water) on rats (males: 30 to 310 mg/kg bw/day, females: 40 to 345 mg/kg bw/day) where cyanosis and increases in the reticulocyte count were observed in the male groups given 200 and 310 mg/kg/day and the female groups given 130 mg/kg/day or more, and increases in the methemoglobin level were observed in most of the groups including the ones given the dose equivalent to Category 2 (NTP TR 495 (2001)).: sodium nitrite
- Aspiration Hazard : No data available
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12. Ecological Information

Ecotoxicity	: LC ₅₀ ≥ 300 mg/L/48h (himedaka (gold-colored breed of Japanese rice fish)); polyether polyol LC ₅₀ ≥ 0.54 mg/L/96h (rainbow trout): sodium nitrite LC ₅₀ ≥ 28 mg/L/96h (bluegill): 1,2,3-benzotriazole
Persistence/Degradability	: No data available
Bioaccumulative Potential	: No data available
Mobility in Soil	: No data available
Hazardous to the Ozone Layer	: No data available

13. Disposal Considerations

- Have the contents/container disposed of by an industrial waste disposal contractor licensed by the prefectural governor.
 - Dispose of waste generated from effluent treatment or incineration or have it disposed of by an industrial waste disposal contractor in accordance with the Act on Waste Management and Public Cleansing and other related laws.
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14. Transport Information

UN Classification	: N/A
UN No.	: N/A

Transport this product using containers and loading methods as specified in the following laws:

Fire Service Act	: Non-hazardous material
Ship Safety Law	: Non-hazardous material (for individual transport and bulk transport)
Civil Aeronautics Act	: Non-hazardous material

Follow other related laws and regulations.

15. Regulatory Information

Fire Service Act	: Non-hazardous material
Pollutant Release and Transfer Register Act (PRTR Act)	: Polyoxyethylene decyl ether (8.000%) (CAS RN: 26183-52-8): Class I, Cabinet Order No. 1-041, Control No. 580 [alpha-alkyl-omega-hydroxypoly (oxyethylene) (those with an alkyl group carbon number of 9 to 11 and their mixtures, but limited to those with a number average molecular weight of less than 1,000)]
Poisonous and Deleterious Substances Control Act	: Sodium nitrite (3.000%) (CAS RN: 7632-00-0): Cabinet Order, Poisonous and Deleterious Substances Control Act (Article 2-1-2 of the Cabinet Order): nitrites
Industrial Safety and Health Act	: Dangerous and harmful substances the names, etc. of which should be indicated/notified (Appended Table 9): (cccxi) silica
Water Pollution Prevention Act	: Article 2-26 of Cabinet Order: nitrite compounds and nitrate compounds

16. Other Information**Major References**

- Safety Data Sheets (SDS) provided by raw material manufacturers
- Japanese Standards Association (JIS) JIS Z 7253:2019 "Hazard communication of chemicals based on GHS"
- NITE Chemical Risk Information Platform (CHRIP)

Disclaimer

Safety Data Sheets are provided to business users of hazardous chemical products as reference information to ensure their safe handling.

The information contained in this SDS is based on documents, information, and data available to us at the time of preparation or revision, but we do not represent any guarantee as to its correctness or safety.

All chemical products may have unknown hazards and should be handled with great care.

The precautions in this SDS assume normal handling. If this product is to be used in a special manner, the user is responsible for taking appropriate measures for that particular use. Please take safety measures appropriate for the usage.

This Safety Data Sheet was prepared in accordance with JIS Z 7253:2019 and is subject to change as new findings, including test results, become available.
