SAFETY DATA SHEET

1. 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		
Date of Creation:	October 23, 2007	Date of Revision:	January 21, 2021
Reference Number:	SDS15120-07e		
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 lactation	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 (acute)	Category 2
	Hazardous to the aquatic environment (chronic)	Category 2
	Hazardous to the ozone layer	Classification not possible

GHS Label Elements

Pictograms:

Signal Word: Danger

Hazard Statement: 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 Statement:

Prevention: Obtain special instructions (SDS) before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mists, vapors, or sprays.
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. Immediately call a POISON CENTER/doctor.
If exposed or concerned: Call a POISON CENTER/doctor.
If exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of contents/container at an approved waste disposal plant in accordance with local/regional/national regulations.

3. Composition/Information on Ingredients

Substance/Mixture Mixture

Chemical Name or Common Name	Content (%)	CAS No.
Polyoxyethylene decyl ether (polyoxyethylene alkyl ether)	6–10	26183-52-8
Polyether polyol (polyoxyethylene polyoxypropylene glycol)	1–5	9003-11-6
Sodium nitrite	1–5	7632-00-0
Silicone mixture (dimethyl silicone)	1–5	Non-disclosure
1,2,3-Benzotriazole	0.3–1.0	95-14-7
Water	70–90	—

4. First Aid Measures

IF INHALED	:	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor, if you feel unwell.
IF ON SKIN	:	Wash with plenty of water and soap. If skin irritation occurs, get medical advice/attention.
IF IN EYES	:	Rinse cautiously with 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 product remains in the mouth, rinse thoroughly. Do NOT induce vomiting.

5. Firefighting Measures

Extinguishing Media	:	Dry chemical, foam fire extinguishing agent, carbon dioxide, and water spray
Inappropriate Extinguishing Media	:	No information available
Specific Hazards	:	When fighting fire, avoid inhalation of fumes as the combustion gases include carbon monoxide and other toxic gases.
Special Firefighting Procedures	:	Perform fire-fighting from the windward side, and wear respiratory protection if needed. Remove containers from the fire area, if it can be done safely. To prevent the fire from spreading, remove nearby flammable materials if safe to do so.
Protection of Firefighters	:	Wear appropriate protective equipment to avoid inhalation of 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 mists.
Environmental Precautions	:	Be careful not to discharge into rivers or anywhere else that would affect the environment.
Method and Materials for Containment and Cleaning Up	:	Collect the material by absorbing the released material with earth, sand, sawdust, waste cloth, or other such materials.
Measures to Prevent Secondary Accidents	:	Leaving a floor wet with the released material makes it slippery and may cause a slip accident. Do not walk on the released material unnecessarily.

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 inhale mists, vapors, or sprays. Avoid contact, inhalation, or ingestion. Wash hands thoroughly after handling.

Storage

Proper Storage Conditions	:	Store in a cool, well-ventilated place, away from direct sunlight. Keep containers sealed. Store locked up if necessary.

Safe Packaging Materials	:	Keep in containers specified in the product specifications.

8. Exposure Controls/Personal Protection

Control Levels	:	Not established
Permissible Exposure Levels		
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 System Protection	:	Activated charcoal, organic gas masks, 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 or long-sleeved work clothes)

9. Physical and Chemical Properties

Physical state	:	Liquid
Color	:	Milk white
Odor	:	No data available
Melting point/ freezing point	:	No data available
Boiling point or initial boiling point and boiling range	:	No data available
Flammability	:	Non-combustible
Lower and upper explosion limit / flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	7.0–9.5 (20°C)
Kinematic viscosity	:	No data available
Solubility	:	Readily soluble in water.
Partition coefficient n-octanol/water (log value)	:	No data available
Vapor pressure	:	No data available
Density and/or relative density	:	1.04 (25℃)
Relative vapor density	:	No data available
Particle characteristics	:	No data available

10. Stability and Reactivity

Chemical Reactivity and	:	Stable when stored at room temperature in a dark place.

Stability		
Possibility of Hazardous Reactions	:	May react with strong reducing agents. May react with amines in the presence of strong acids.
Conditions to Avoid	:	High temperatures, contact with incompatible materials
Incompatible Materials	:	Strong acids, reducing agents
Hazardous Decomposition Products	:	Nitrogen oxides

11. Toxicological Information

Acute Toxicity (oral)	:	LD_{50} = 5 g/kg (rat): polyether polyol LD_{50}= 77–150 mg/kg (rat): sodium nitrite LD_{50} = 560 mg/kg (rat): 1,2,3-benzotriazole
Acute Toxicity (dermal)	:	LD_{50} > 2,000 mg/kg (rabbit): 1,2,3-benzotriazole
Acute Toxicity (inhalation)	:	No data available
Skin Corrosion and Skin Irritation	:	Mild irritation, 500 mg/24 h (rabbit): polyether polyol
Serious Eye Damage or Eye Irritation	:	Mild irritation, 500 mg/24 h (rabbit): polyether polyol Moderate rubor, slight edema, etc.: sodium nitrite
Respiratory Sensitization or Skin Sensitization	:	Respiratory sensitization: No data available Skin sensitization: No data available
Germ Cell Mutagenicity	:	Positive results (SIDS (2005), IARC 94 (2010)) have been reported from somatic cell in vivo mutagenicity tests of chromosome aberration tests using bone marrow through oral administration to rats and mice, a micronucleus test using peripheral blood after oral administration to mice, and a micronucleus test using embryonic cells after oral administration to hamsters.: sodium nitrite
Carcinogenicity	:	No data available
Reproductive Toxicity	:	A report (SIDS (2005)) on significant decreases in the implantation ratio and average litter size and significant increases in dead infants and early deaths in a developmental toxicity test of oral administration in the organogenic period to pregnant mice with a dose showing body weight increase suppression of mother animals. Another report (SIDS (2005)) on an increase in the infant death rate and a decreases in the average litter size at birth in a test of oral administration to rats from the pregnancy period to the breast-feeding period.: sodium nitrite
Specific Target Organ Toxicity, Single Exposure	:	Numerous case reports (SIDS (2005), JECFA 844 (1998), PIM G016 (1999)) in which intake or exposure causes methemoglobin formation in the blood, some exhibition of cyanosis, and development of methemoglobinemia.: sodium nitrite
Specific Target Organ Toxicity, Repeated Exposure	:	A report (NTP TR 495 (2001)) in which 14-week repeated oral administration (drinking water) test to rats (male: 30–310 mg/kg bw/day, female: 40–345 mg/kg bw/day) showed cyanosis in males in groups of 200 and 310 mg/kg/day and females in groups of 130 mg/kg/day or more, increases in reticulocyte count and methemoglobin concentration in almost all groups, including a dose corresponding to Category 2.: sodium nitrite
Aspiration hazard	:	No data available

12. Ecological Information

Ecotoxicity	:	$LC_{50} \geq$ 300 mg/L/48 h (himedaka (gold-colored breed of Japanese rice fish)): polyether polyol $LC_{50} \geq$ 0.54 mg/L/96 h (rainbow trout): sodium nitrite $LC_{50} \geq$ 28 mg/L/96 h (bluegill): 1,2,3-benzotriazole
Persistency/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 contents/container disposed of by an industrial waste disposal contractor licensed by the prefectural governor.

Dispose of or have waste generated from effluent treatment or incineration disposed of by a waste disposal contractor in accordance with the Waste Management and Public Cleansing Act and other related laws.

14. Transport information

UN Hazard Class	:	Not restricted
UN No.	:	Not restricted

Not regulated for transport of dangerous goods (IATA. IMDG)

Follow other related laws and regulations.

15. Regulatory Information

Comply with the applicable laws and regulations regarding this product in each country/region.

16. Other Information

This Safety Data Sheet was prepared in accordance with JIS Z 7253:2019 to provide users of this product with reference information to ensure safe handling. Users are responsible for taking appropriate measures for individual handling conditions with reference to this SDS.

This SDS does not represent any guarantee of safety.

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)