SAFETY DATA SHEET

1. Product and Company Identification

Product Name:	**PLASLITE PRC-04**		
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 13, 2007	Date of Revision:	January 18, 2021
Reference Number:	SDS15125-09e		
Product Code:	15125		
Recommended Uses and Restrictions on Use:	Magnetic particle testing (water-based method)		

2. Hazards Identification

GHS Classification

Physical Hazards	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	Category 2
	Serious eye damage/eye irritation	Category 1
	Respiratory sensitization	Classification not possible
	Skin sensitization	Category 1
	Germ cell mutagenicity	Classification not possible
	Carcinogenicity	Classification not possible
	Reproductive toxicity	Classification not possible
	Specific target organ toxicity (single exposure)	Category 3 (respiratory tract irritation)
	Specific target organ toxicity (repeated exposure)	Classification not possible
	Aspiration hazard	Classification not possible
Environmental Hazards	Hazardous to the aquatic environment (acute)	Classification not possible
	Hazardous to the aquatic environment (chronic)	Classification not possible
	Hazardous to the ozone layer	Classification not possible

GHS Label Elements

Pictograms:

Signal Word: Danger

Hazard Statement: Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

May cause respiratory irritation

Precautionary Statement:

Prevention	Avoid breathing mists/vapors.
	Wash hands thoroughly after handling.
	Use only outdoors or in a well-ventilated area.
	Contaminated work clothing should not be allowed out of the workplace.
	Wear protective gloves/eye protection/face protection/protective clothing.
Response	IF ON SKIN: Wash with plenty of water/soap.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	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.
	Call a POISON CENTER/doctor, if you feel unwell.
	If skin irritation or rash occurs: Get medical advice/attention.
	Take off contaminated clothing and wash it before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed.
	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.
Triethanolamine*1	20–29.9	102-71-6
Polyoxyethylene decyl ether (polyoxyethylene alkyl ether)	5–10	26183-52-8
Polyether polyol (polyoxyethylene polyoxypropylene glycol)	1–5	9003-11-6
Silicone mixture*2 (dimethyl silicone)	1–5	Non-disclosure
1,2,3-Benzotriazole	0.5–3.0	95-14-7
Water	40–70	—

*1: The substance contains diethanolamine at a concentration of 0.5% or less.

*2: The substance contains silica at a concentration of 1 to 5%.

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	:	TLV-TWA: 5 mg/m^3 (triethanolamine) (2013) 2 mg/m^3 (diethanolamine) (2008)
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	:	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)

9. Physical and Chemical Properties

Physical state	:	Liquid
Color	:	Milk white
Odor	:	Faint ammonia odor
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	:	9.2–10.2 (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	:	1.0
Relative vapor 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 oxidizing agents. May react with nitrous acid in the presence of strong acid.
Conditions to Avoid	:	High temperature
Incompatible Materials	:	Oxidizing agents and strong acid
Hazardous Decomposition Products	:	When burned, this product decomposes and generates fumes containing nitrogen oxides.

11. Toxicological Information

Acute Toxicity (oral)	:	$LD_{50} \geq 5{,}000$–$9{,}600$ mg/kg (rat): triethanolamine $LD_{50} = 5$ g/kg (rat): polyether polyol

		LD_{50} = 560 mg/kg (rat): 1,2,3-benzotriazole
Acute Toxicity (dermal)	:	$LD_{50} \geq$ 2,000 mg/kg (rabbit): triethanolamine 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	:	May cause mild irritation to eyes.: triethanolamine Mild irritation, 500 mg/24 h (rabbit): polyether polyol
Respiratory sensitization or Skin Sensitization	:	Respiratory sensitization: No data available. Skin sensitization: Skin contact may cause an allergic skin reaction in some people. Negative in guinea pigs: triethanolamine
Germ Cell Mutagenicity	:	No data available.
Carcinogenicity	:	Diethanolamine: it is stated that this substance may be carcinogenic (IARC classification: 2B), and that it has been found to be carcinogenic for animals but whether or not it is carcinogenic for humans is unknown (ACGIH Group A3).
Reproductive Toxicity	:	No data available.
Specific Target Organ Toxicity, Single Exposure	:	Triethanolamine: it is stated in NTP TR 518 (2004) that vapors of this substance cause nasal irritation to humans.
Specific Target Organ Toxicity, Repeated Exposure	:	No data available.
Aspiration Hazard	:	No data available.

12. Ecological Information

Ecotoxicity	:	$LC_{50} \geq$ 1,800–11,800 mg/L (fathead minnow): triethanolamine $LC_{50} \geq$ 739–2,038 mg/L (daphnia magna): triethanolamine $LC_{50} \geq$ 300 mg/L/48 h (himedaka (gold-colored breed of Japanese rice fish)): polyether polyol $LC_{50} \geq$ 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)