

SAFETY DATA SHEET

1. Chemical 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
 Issue Date: October 13, 2007 Revision Date: April 1, 2023
 Reference Number: SDS15125-23
 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
Environmental Hazards	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
	Hazardous to the Aquatic Environment—Short-term (Acute)	Classification not possible
	Hazardous to the Aquatic Environment—Long-term (Chronic)	Classification not possible
	Hazardous to the Ozone Layer	Classification not possible

GHS Label Elements



Pictograms or Symbols:

Signal Word: Danger

Hazard Statements: Skin irritation
Causes serious eye damage
May cause an allergic skin reaction
May cause respiratory irritation

Precautionary Statements

Prevention: Avoid breathing mist/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 soap and water.
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 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: 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)
Triethanolamine* ¹	29.9	102-71-6	2-308
Polyoxyethylene decyl ether (polyoxyethylene alkyl ether)	6.0	26183-52-8	7-97
Polyether polyol (polyoxyethylene polyoxypropylene glycol)	2.0	9003-11-6	7-327
Silicone mixture* ² (dimethyl silicone)	2.0	Not disclosed	Registered
1,2,3-benzotriazole	1.0	95-14-7	5-537
Water	59.1	—	—

*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%.

Hazardous Components

Industrial Safety and Health Act (Substances Whose Name, etc. Should Be Indicated or Notified):

Triethanolamine	29.9%
Silica	< 0.10%
Diethanolamine	< 0.20%

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 Safe Storage	: Store in a cool, well-ventilated place, away from direct sunlight. Keep containers tightly closed. 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 Level	
Japan Society for Occupational Health	: No information available
ACGIH	: TLV-TWA 5 mg/m ³ (triethanolamine) (2013 ed.) 2 mg/m ³ (diethanolamine) (2008 ed.)
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	: 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
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	: 9.2 to 10.2 (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 and/or Relative Density	: 1.0
Relative vapour 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 ≥ 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 ≥ 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/ Irritation	: Mild irritation, 500 mg/24h (rabbit): polyether polyol
Serious Eye Damage /Eye Irritation	: May cause moderate irritation to eyes.: triethanolamine Mild irritation, 500 mg/24h (rabbit): polyether polyol
Respiratory or Skin Sensitization	: Respiratory Sensitization: No data available Skin Sensitization: Skin contact may cause an allergic skin reaction. Negative in guinea pigs: triethanolamine
Germ Cell Mutagenicity	: No data available
Carcinogenicity	: It is stated that this substance is possibly carcinogenic to humans (IARC Group 2B), and that it has been confirmed to be an animal carcinogen with unknown relevance to humans (ACGIH Group A3): diethanolamine
Reproductive Toxicity	: No data available
Specific Target Organ Toxicity (Single Exposure)	: NTP TR 518 (2004) states that vapors of this substance cause nasal irritation in humans: triethanolamine
Specific Target Organ Toxicity (Repeated Exposure)	: No data available
Aspiration Hazard	: No data available

12. Ecological Information

Ecotoxicity	:	LC ₅₀ ≥ 1,800–11,800 mg/L (fathead minnow): triethanolamine LC ₅₀ ≥ 739–2,038 mg/L (daphnia magna): triethanolamine LC ₅₀ ≥ 300 mg/L/48h (himedaka (gold-colored breed of Japanese rice fish)): polyether polyol 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 Act	:	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 (6.0%) (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	:	N/A
Industrial Safety and Health Act	:	Dangerous and harmful substances whose names, etc. should be indicated or notified (Appended Table 9) (cccxix) diethanolamine, (cccxii) silica, (ccclxxxi) triethanolamine

16. Other Information

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.

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)
