

# SAFETY DATA SHEET

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## 1. Product and Company Identification

Product Name: **Dispersive Solvent MIP-18**  
 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: July 28,2009      Date of Revision: January 21, 2021  
 Reference Number: SDS15127-04e  
 Product Code: 15127  
 Recommended Uses and Restrictions on Use:      Magnetic particle testing (oil-based method)

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## 2. Hazards Identification

### GHS Classification

Physical Hazards	Flammable liquids	Category 4
Health Hazards	Skin corrosion/irritation	Not classified
	Serious eye damage/eye irritation	Not classified
	Aspiration hazard	Category 1

### GHS Label Elements



#### Pictograms:

Signal Word: **Danger**

Hazard Statement: **Combustible liquid**  
**May be fatal if swallowed and enters airways**

#### Precautionary Statement:

Prevention	Do not handle until all safety precautions have been read and understood. Keep away from ignition sources including heat, sparks and high-temperature materials. No smoking Wear protective gloves/eye protection/face protection/protective clothing. Use only outdoors or in a well-ventilated area and avoid breathing mist/vapors. Or avoid ingestion. Do not eat or drink when using this product. Wash hands thoroughly after handling.
Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. 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 ON SKIN (or in hair): Wash with plenty of water and soap.

	In case of fire: Use dry chemical, foam, or carbon dioxide fire extinguishers.
Storage	Store in a cool, well-ventilated place, away from direct sunlight.
	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: Substance

Chemical Name or Common Name	Content (%)	CAS No.
Synthetic oil	100	Trade secret

### 4. First Aid Measures

IF INHALED	: Remove person to fresh air and keep comfortable for breathing. Cover with a blanket, keep warm and at rest, and immediately get medical attention as needed. In case of no breathing or weak breathing, loosen clothing, clear their airway and practice artificial respiration.
IF ON SKIN	: Take off contaminated clothing immediately and wash skin with plenty of water and soap. Take off contaminated clothing and wash it before reuse.
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	: Do NOT induce vomiting. Get medical attention. If the product remains in the mouth, rinse thoroughly.
Most Important Signs and Symptoms, Acute and Delayed	: If swallowed, the product may irritate gastric mucosa and cause vomiting. If this product is inhaled to the lungs while vomiting, it may cause chemical pneumonia which can be fatal.

### 5. Firefighting Measures

Extinguishing Media	: Mist of water and alkali salts, dry chemicals, carbon dioxide, and foam. For initial fires, use dry chemical or carbon dioxide fire extinguishing media. For large-scale fires, it is possible to use firefighting foam to smother the fire.
Inappropriate Extinguishing Media	: Straight stream of water
Specific Hazards	: If generated vapor comes into contact with things such as hot metal surfaces, it can cause burning and explosion. Burning can generate carbon monoxide, sulfurous acid gas, etc.
Special Firefighting Procedures	: Extinguish the source of the fire. Cool down surroundings by spraying them with water. Keep unnecessary personnel away from the fire and the surrounding area.
Protection of Firefighters	: Firefighting personnel must wear protective equipment such as breathing apparatus to prevent oxygen deficiency and inhalation of toxic gases.

**6. Accidental Release Measures**

- Personal Precautions, Protective Equipment and Emergency Procedures : Wear protective equipment during firefighting operations.  
Remove nearby potential sources of ignition immediately.
- Environmental Precautions : Do not let the discharged product drain into water systems in order to prevent any environmental impact.
- Method and Materials for Containment and Cleaning Up : Due to the product's high volatility, promptly remove any potential ignition sources and stop leakage at the source.  
For small-scale leakage, collect the material by absorbing released material with earth, sand, sawdust, waste cloth, or other materials.  
For large-scale leakage, stop the flow by creating an embankment around the leakage, then cover the liquid surface with foam and collect the liquid in containers.
- Measures to Prevent Secondary Accidents : Inform relevant organizations immediately to prevent further accidents and expansion.  
Remove nearby potential ignition sources immediately and prepare fire extinguishing media.

**7. Handling and Storage**

## Handling

- Technical Measures : Amounts larger than the designated amount must be handled in a factory, a storage facility, or a laboratory in compliance with the standards required by the relevant regulations.  
Avoid contact with heat, sparks, flames, high-temperature materials, etc. Do not evaporate it unnecessarily. No smoking.  
Wear protective equipment if skin or eye contact is possible.  
Repair of or processing using machinery or other equipment containing hazardous materials must be carried out in a safe location after completely removing the material.  
Ventilate well if handling it indoors.  
Choose an explosion-proof ventilation system to install if necessary.
- Precautions for Safe Handling : Avoid contact and storage with halogens, strong acids, alkalis, and oxidizing materials.  
Keep tightly sealed and avoid contact with strong oxidizing agents.

## Storage

- Proper Storage Conditions : Store in a cool, well-ventilated place, away from direct sunlight.  
Keep container tightly closed. Store locked up.  
Label as hazardous material and then store.
- Safe Packaging Materials : Do not pressurize the container. If pressurized, the container may burst.

**8. Exposure Controls/Personal Protection**

- Control Levels : Not established. (Work environment assessment standard: Ministry of Health, Labour and Welfare Notification No. 26, March 27, 1995)
- Permissible Exposure Levels : Currently, no useful information is available (Japan Society for Occupational Health, ACGIH)
- Engineering Measures : If mist is generated, the source must be tightly sealed or ventilation equipment must be installed.  
Install a shower and an eye washer near the handling location.

## Protective Equipment

- Respiratory System Protection : Wear a gas mask (for organic gasses) if necessary.
- Hand Protection : Wear oil resistant gloves for long time or repeated contact.
- Eye Protection : Wear standard glasses for splash prevention.
- Skin and Body Protection : Wear oil resistant long-sleeve work clothing for long-time handling or contact.
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**9. Physical and Chemical Properties**

- Physical state : Liquid
- Color : Colorless and transparent
- Odor : Slight odor
- Melting point/ freezing point : Pour point -60°C
- Boiling point or initial boiling point and boiling range : Initial boiling point–end point 208–254°C
- Flammability : Flammable
- Lower and upper explosion limit / flammability limit : Explosion limit estimated 1–7%
- Flash point : 80°C (PM)
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- pH : No data available
- Kinematic viscosity : No data available
- Solubility : Solubility in water: insoluble
- Partition coefficient n-octanol/water (log value) : No data available
- Vapor pressure : No data available
- Density and/or relative density : 0.789 g/cm<sup>3</sup> (15°C)
- Relative vapor density : No data available
- Particle characteristics : No data available
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**10. Stability and Reactivity**

- Chemical Reactivity and Stability : Stable when stored at room temperature in a dark place.
- Possibility of Hazardous Reactions : Keep tightly sealed and avoid contact with strong oxidizing agents.
- Conditions to Avoid : Contact with incompatible materials.
- Incompatible Materials : Peroxides, strong oxidizing agents
- Hazardous Decomposition Products : Smoke, carbon monoxide, sulfurous acid gas or the such is generated if the product is burned.
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**11. Toxicological Information**

Acute Toxicity (oral)	:	LD <sub>50</sub> ≥ 2,000 mg/kg (Limit test: Result from products with a slightly different distillation range) LD <sub>50</sub> ≥ 5,000 mg/kg (Mixture of n- and iso-paraffins and cycloalkanes with C10-13 and C12-C17)
Acute Toxicity (dermal)	:	No data available
Acute Toxicity (inhalation)	:	No data available
Skin Corrosion and Skin Irritation	:	Medium skin irritation to rabbits
Serious Eye Damage or Eye Irritation	:	No irritation was observed in rabbit eyes.
Respiratory Sensitization or Skin Sensitization	:	No skin sensitization
Germ Cell Mutagenicity	:	Negative both in vitro and in vivo (Mixture of n- and iso-paraffins and cycloalkanes mainly with C10-13)
Carcinogenicity	:	No cases have been reported as carcinogenic by international organizations.
Reproductive Toxicity	:	No reproductive toxicity. (Mixture of n- and iso-paraffins and cycloalkanes mainly with C10-13)
Specific Target Organ Toxicity, Single Exposure	:	No data available
Specific Target Organ Toxicity, Repeated Exposure	:	NOAEL = 2,000 mg/m <sup>3</sup> by 12-week inhalation test (Mixture of n- and iso-paraffins and cycloalkanes mainly composed of C9-13)
Aspiration hazard	:	A report indicates that this product is a hydrocarbon, the kinematic viscosity is not more than 20.5 mm <sup>2</sup> /s at 40°C, and when humans inhale it into their lungs, it causes oil pneumonia or chemical pneumonia.

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**12. Ecological Information**

Ecotoxicity		
Acute Toxicity	:	Solubility in water is extremely low and no harmful effect is expected below this low solubility.
Chronic Toxicity	:	Iso-paraffins with C8 or higher are generally resistant to decomposition, but not highly accumulative.
Persistency/Degradability	:	No data available
Bioaccumulative Potential	:	No data available
Mobility in Soil	:	No data available
Hazardous to the Ozone Layer	:	No data available

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**13. Disposal Considerations**

Have contents/container disposed of by an industrial waste disposal contractor licensed by the prefectural governor.

No dumping is allowed.

If this product is disposed of by landfill, incinerate it by using an incineration system in advance and check that the burned residue does not exceed the criteria defined in the Order for Enforcement of the Waste Management and Public Cleansing Act.

If this product is burned, burn it in a safe place using a method that does not cause harm or damage due to burning or explosion and have someone stand guard.

**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.

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**15. Regulatory Information**

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

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**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)

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