

IDEMITSU KOSAN CO.,LTD.

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First issue : JUN 17,1999

Revised :

MSDS No. : 32450338

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION.

Product name : ND-OILS
Product code : 32450338
Company name : IDEMITSU KOSAN CO., LTD
Address : No.1-1,3-chome, Marunouchi,Chiyoda-ku,Tokyo,Japan
Telephone number : +81-3-3213-3142
Telefax number : +81-3-3213-9415

2. COMPOSITION / INFORMATION ON INGREDIENTS.

Substance / Mixture : Mixture

Hazardous and/or Regulated Components

Component	Chemical name	Wt %	CAS No.
Synthetic Oil	Polyether	> 95	24991-61-5
Additives		< 5	

Composition comment

This components are included U.S. TSCA and EINCS Inventory.

3. HAZARDS IDENTIFICATION.

Emergency overview :

Potential Health effects

Eye : Not expected to cause prolonged or significant eye irritation.

Skin: There is likely to be a mild irritation when there is contact for long periods of time or repeated contact.

Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: No data available.

Inhalation: No data available.

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4. FIRST AID MEASURES.

Eye contact : Flush eyes with fresh water for at least 15 minutes,
then seek medical attention.
Skin contact : Wash contact areas thoroughly with soap and water
Inhalation : Remove to fresh air. Cover the victim's body with blanket,
rest in keeping warm, and seek medical attention immediately
Ingestion : If swallowed, do not induce vomiting. Seek medical attention immediately.
If contaminated in mouth, flush thoroughly with water

5. FIRE-FIGHTING MEASURES.

FLAMMABLE PROPERTIES

Flash point and Method : 204°C (COC)

Flammable Limits : No data available.

Extinguishing media : CO₂, Dry Chemical, Foam and Water Fog.

Fire fighting instructions :

For fires involving this material, do not enter any enclosed or confined fire space
without proper protective equipment, including self-contained breathing
apparatus.

Combustion products :

Normal combustion forms carbon dioxide and water. Incomplete combustion can
produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES.

Eliminate all open flame in vicinity of spill or released vapor. Stop the source of the
leak or release. Clean up releases as soon as possible, observing precaution in
Exposure Controls/Personal Protection. Contain liquid to prevent further
contamination of soil, surface water or groundwater. Clean up small spills using
appropriate techniques such as absorbent materials or pumping. Where feasible and
appropriate, remove contaminated soil. Follow prescribed procedures for reporting
and responding to larger releases.

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7. HANDLING AND STORAGE

Do not weld, heat drill container. Residue may ignite with explosive violence if heated sufficiently

CAUTION : Do not use pressure to empty drum or may rupture with explosive force.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

Engineering Controls :

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Personal protective equipment :

Eye/ Face Protection :

No special eye protection is usually necessary. Where splashing is possible wear safety glasses with side shields as a good safety practice.

Skin protection :

No special protective clothing is normally required. Avoid prolonged or frequently repeated skin contact with this material.

Skin contact can be minimized by wearing protective clothing.

Respiratory protection :

No respiratory protection is usually necessary. However, if operating conditions create high airborne concentrations, the use of an approved respirator is required.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical description :

Light yellow liquid with characteristic odor.

Vapor pressure : < 5 mmHg (@20 °C)

Boiling point : > 250°C (IBP)

Pour point : -45.0

Solubility : Insoluble in water

Density : 1.00 g/cm³ (@15°C)

Viscosity : 43.3 mm²/s (@40°C)

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10. STABILITY AND REACTIVITY.

Hazardous decomposition products : No data available

Chemical stability : Stable

Condition to avoid : No data available

Incompatibility with other materials : May react with strong oxidizing agent,
such as chlorates, nitrates, peroxides, etc.Hazardous polymerization : Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION.

Eye effects : No product toxicology data available.

The hazard evaluation was based on data from similar materials.

Skin effects : Very mild irritant to the skin.

The skin irritation hazard is based on data for a similar materials.

Acute oral effects : The acute oral toxicity is based on data for a similar materials.

Acute inhalation effects : The acute inhalation is based on data for a similar materials.

Additional toxicology information :

None of the oils requires a cancer warning under the OSHA Hazard Communication Standard(29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program(NTP)Annual Report and the International Agency for Research on Cancer(IARC)

12. ECOLOGICAL INFORMATION.

Ecotoxicity : No data available.

Environmental fate : This material is not expected to be readily biodegradable.

13. DISPOSAL CONSIDERATIONS.

Place contaminated material in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this materials.

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14. TRANSPORT INFORMATION.

The description shown may not apply to all shipping situations. Consult 49CFR, or Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.
UN No. : Not applicable

15. REGULATORY INFORMATION.

None of the listed components of this material are found on the regulatory lists indicates.

16. OTHER INFORMATION.

NFPA RATINGS : Health 1 ; Flammability 1 ; Reactivity 0 ;

HMS RATINGS : Health 1 ; Flammability 1 ; Reactivity 0 ;

These values are obtained using the guidelines or published evaluation prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMS ratings).

The Safety Data Sheet for Chemical Products is provided to companies. That handle dangerous and toxic as reference information for safe handling. We recommend the companies to utilize the data upon understanding that the product handling requires appropriate treatment according to and conditions, and should be done on your own responsibility. Therefore the data sheet itself constitute a guarantee of safety.