Safety Data Sheet (SDS)

Effective Date: November 1, 2021

FAX.+81-45-504-2217

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Material Name STANDARD LIQUID FOR CALIBRATING VISCOMETERS JS 2.5

Standard liquids for calibrating viscometer. Recommended Use

: E478900100

Restricted Use Other than those above. Manufacturer/Supplier Nippon Grease Co., Ltd.

1-12-4, Suehiro-cho, Tsurumi-ku, Yokohama, 230-0045, Japan

Telephone/Fax Sales Management Division TEL.+81-45-501-0781

Emergency Telephone

Number **SDS Code** : Technical Research Laboratory TEL.+81-78-731-8147

2. HAZARDS IDENTIFICATION

GHS Classification : Flammable liquids: Category 4

> Skin corrosion/irritation: Category 2 Aspiration hazard: Category 1

GHS Label Elements

Symbol(s)





Signal Words

Hazard Statement H227: Combustible liquid

H315: Causes skin irritation

H304: May be fatal if swallowed and enters airways

GHS Precautionary Statements

Prevention : P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smokina.

P264: Wash hand thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response : P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P301+P331: IF SWALLOWED: Do NOT induce vomiting. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P362+P364: Take off contaminated clothing. And wash it before reuse.

P370+P378: In case of fire: Use suitable media to extinguish.

Storage P403: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance

with local and national regulations.

Unclassified Hazard : Please see Section 4 - 8 before use for Prevention/Response/Storage/Disposal.

Information Used oil may contain harmful impurities.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture Mixture

Chemical Description Standard liquids for calibrating viscometer.

Component Information Base oil 100% Not possible to define. **Chemical Formula** CAS registry number 112-40-3,64742-47-8

Additional Information If product contained highly refined mineral oil, it contains <3% DMSO-extract,

according to IP346.

Pollutant Release and Transfer : Not applicable

Register (PRTR) Law

Industrial Safety and Health : Labeling(Delivery of Documents): Mineral oil 40-50%

Law

Poisonous and Deleterious : Not applicable

Substance Control Law

The specific chemical identities and percentages of composition have been withheld as trade secrets.

4. FIRST AID MEASURES

General Information

: Not expected to be a health hazard when used under normal conditions.

Inhalation : Remove casualty to fresh air and keep at rest in a position comfortable for breathing.

Cover with blanket to keep warm and rest in a quiet surrounding. Seek immediate

medical advice and attention.

Skin Contact : Wash skin with large amount of water using soap. **Eye Contact**

: Rinse cautiously with clean water for several minutes. Remove contact lenses, if present and easy to do, and continue rinsing. After rinsing for a minimum of 15 minutes, seek medical advice and attention.

: Without inducing vomiting, call a doctor for treatment. If mouth has been dirtied, clean with water.

Most Important

Symptoms/Effects, Acute

& Delayed

Ingestion

Immediate Medical Attention, Special **Treatment**

: Treat symptomatically. Call a doctor or poison control center for guidance.

: If swallowed, may irritate mucous membrane of stomach and induce vomiting.

Inhalation if mist may cause feeling ill. Skin contact and eye contact may cause

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Suitable Extinguishing Media

: Concentrated strong liquid in mist and powder forms, carbon dioxide and foam. Use powder and carbon dioxide may be used small fires only. Effective to use foam to shutdown the air in a large fires.

Unsuitable Extinguishing Media

Specific Hazards Arising

from Chemicals

: Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and

inorganic compounds

: Do not use water in a jet.

Fire fighting instructions

Water the surrounding equipment to cool them down. Cordon off the affected place

and its vicinity to all, except the concerned parties.

Protective Equipment & Precautions for Fighters : Ensure to wear protective equipment and approach from windward.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Section 8 of this SDS. See Section 13 for information on disposal. Observe the relevant local and international regulations.

Personal Precautions, **Protective Equipment and Emergency Procedures**

Environmental

: Avoid contact with skin and eyes. Prepare suitable equipment and materials.

Precautions

: Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. In event of entering in the sea, extend oil fences to prevent from spreading, and sop up with absorbent materials. Use chemicals and/or detergents, they must satisfy technical standards as set by the Ministry of Land, Infrastructure and Transport / Ministry of the Environment.

Methods and Material for Containment and Clean Up

Promptly remove all ignition sources and stop leakages. In a small leakage, absorb and recover by use of soil, sand, sawdust and waste clothes. In a large leakage, cordon off the danger zone, prevent from entering and enclose it with sand bank and stop outflow. Cover liquid surface with foam, and recover liquid into containers.

Additional Advice : Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE **HANDLING**

Technical Measures

: In handling this material over the allocated volume, ensure approval to meet requires of the laws. Keep away from heat, sparks, open flames, hot objects. No smoking. Take measures against static discharge. Ensure to wear clothing and shoes made of conductive materials. When fixing or processing machine, it carries out after removing dangerous objects completely. NEVER suck up (siphoning) this material by mouth. Wear suitable protect equipment if skin or eye contact may cause. Seal containers hermetically without handling in violent such as falling, dropping, or jolting.

Ventilation Precautions Precautions for Safe

Handling STRAGE

see Section 8

Use under normal temperature. Prevent from mixing water and impurity. Avoid contact with halogens, strong acids, alkali and oxidizing materials.

Conditions for Safe

Storage

: Keep containers tightly closed and in a cool, well-ventilated place away from direct sunlight. It is recommended to lock up storage area. Use properly labelled and closeable containers. Avoid heat, sparks, open flame and static accumulation.

Technical Measures Precautions for Safe Stroage

Recommended **Materials**

: All electrical appliances shall be explosion-proof types, and they all must be earthed. Avoid contact and storage in same place with halogens, strong acids, alkali and

: Storage in original containers. Do not pressurize empty containers. May cause rupture. Do not weld, heat up, drill or cut containers. May ignite the residue and cause explosion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

Equipment : Seal or install ventilations for mist occurs. Install eye shower and body shower near

working site.

Standard Concentration

Control

: Not specified

OSHA, Permissible

: 5mg/m³ (as Oil mist, mineral)

Exposure Limits (PEL)

Occupational Exposure Limits

: Japan Society for Occupational Health(2018)⁽¹⁾ 3mg/m³ (as Oil mist, mineral)

ACGIH(2012) TWA[Inhalable fraction.](2) 5mg/m³ (as Oil mist, mineral) : Skin protection not ordinarily required beyond standard issue work clothes.

Protective Equipment Respiratory Protection

: No respiratory protection is ordinarily required under normal conditions of use. Use

: Use oil-proof protective hand gloves under prolonged or repeated skin contact.

appropriate equipment in response to the circumstances.

Hand Protection Eye/Face Protection Skin and Body

: Wear safety glasses or full face shield if splashes are likely to occur.

: Use oil-proof/long sleeved clothing under prolonged usage.

Protection

Appropriate Sanitary

: Remove immediately all contaminated clothing. Contaminated clothing must be Measures: laundered before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES Physical state : Liquid. Colour : Clear.

Odour Slightly odour. рΗ Not applicable. Melting point/Freezing point Data not available. : Data not available.

Boiling point or Initial boiling point and Boiling

range

Flash point 92°C (COC) **Evaporation rate** Data not available.

Flammability Yes

Upper / lower Flammability or Explosion limits Typical 1 - 7 %(V) (estimated)

Vapour pressure Data not available. Density Approx. 0.78g/cm³ (15°C) Solubility Water: Negligible. Partition coefficient n-octanol/water Data not available. **Auto-ignition temperature** Data not available. **Decomposition temperature** : Data not available.

Kinetic viscosity : 2.51mm²/s (20°C) Relative vapour density : Data not available. Particle characteristics : Data not available.

10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal condition.

Hazardous Reactivity Avoid contact with strong oxidizing agent.

Conditions to Avoid Avoid contact with halogens, strong acids, alkalis, and oxidizing materials.

Incompatible Materials Data not available.

Hazardous Decomposition: Hazardous decomposition products are not expected to form during normal storage.

Products Generates smoke, carbon monoxide, sulfurous acid gas etc. during combustion.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment Information given is based on data on the components and the toxicology of similar

products. Unless indicated otherwise, the data presented is representative of the main

component of a whole product, rather than for individual component(s).

Expected low toxicity: LD₅₀ > 5000 mg/kg(estimated)⁽³⁾ Acute Toxicity 1 Oral

2 Dermal Expected low toxicity: $LD_{50} > 5000 \text{ mg/kg(estimated)}^{(3)}$

3 Inhalation(Vapour) Data not available

4 Inhalation(Mist) Expected low toxicity: $LC_{50} > 5 \text{ mg/l}$, 4h (estimated) (3)

: Expected not classified as a skin irritation. (3) Prolonged/repeated contact may cause Skin Corrosion/Irritation

defatting of the skin which can lead to dermatitis.

: Expected not classified as an eye irritation. (3) Capable of slightly irritating. **Serious Eye**

Damage/Irritation

: No data available concerning respiratory sensitisation. Respiratory or Skin

Sensitisation

Not expected to be a skin sensitiser. (3) : Not considered a mutagenic hazard. (3)

Germ Cell Mutagenicity Carcinogenicity

: Components are not known to be associated with carcinogenic effects. (3)

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Reproductive Toxicity Specific target organ

toxicity

: Not expected to be a hazard. (3) : Not expected to be a hazard. (3)

Aspiration Hazard. : If kinetic viscosity (@40°C) ≤20.5mm2/s, classified as an aspiration hazard category 1.

12. ECOLOGICAL INFORMATION

Basis for Assessment Ecotoxicological data have not been determined specifically for this product.

Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the main component of a whole product, rather than for individual component(s).

Poorly soluble mixture. May cause physical fouling of aquatic organisms. Caution

Toxicity Expected to be of low toxicity: Practically non toxic: LC/LL/EL/IL50 >100mg/L⁽³⁾

Mobility in soil Generally floats on water.

> Lubricating oil components have estimated log Koc >3, indicating these components are likely to be adsorbed onto soil and sediment and are not likely to leach to ground

Persistence/degradability Expected to be not readily biodegradable. Major constituents are expected to be

inherently biodegradable.

Bioaccumulative Potential Not expected to be a hazard. It may contains components with the potential to

bioaccumulate. (3)

Hazardous to ozone layer Not classified because this product not contained substances listed on Montreal

Protocol and Ozone Layer Protection Law.

13. DISPOSAL CONSIDERATIONS

Material Disposal

- 1 Waste disposal yourself or entrust the industrial waste treatment company who obtained the prefectural governor's permission or municipal corporation. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
- 2 Do not dispose into the environment, in drains or in water courses.
- 3 For landfill disposal, destroy by fire and confirm cinders agreed to Waste Disposal

In event of burning this material, ensure to carryout work in safe place with guards in position, and select a method that would not cause any harm or damage to others during combustion or explosion.

Container Disposal

: Purify and recycle or performs suitable disposal in accordance with the standard of related laws and regulations. Disposal with remove content completely.

14. TRANSPORT INFORMATION

International Restriction

UN Class, Shipping

Name

: Not Dangerous Goods.

UN Number : Not applicable.

Domestic Restriction Since domestic laws and regulations shown below are applicable, containers and

transportation methods shall be required to follow each and every regulation.

Land Fire Service Law:

Container:

Dangerous goods. Group 4 (flammable liquid), Class 3 petroleum, Danger grade III If product classified as dangerous goods, use containers (other than tanker, tank car

and tank truck) for transportation usage, shall meet the Clause 2, Notice Attachment 3,

concerning dangerous materials.

Sea Ship Safety Law: Not Dangerous Goods. Air Civil Aeronautics Act: Not Dangerous Goods.

Specific safety measures for transportation

1 Caution: Flammable.

2 Transport remarkably with containers may not cause friction or agitation.

3 Display signage on vehicle and provide with fire fighting equipment, if and when required to transport more than the specified quantity. Total piled height of vehicle shall be less than 3 meters.

4 Consolidation of this material with dangerous goods belonging to the 1st and 6th

Classification is prohibited.

5 Abide by other laws and regulations that are applicable.

15. REGULATORY INFORMATION

Fire Service Law Dangerous goods. Group 4 (flammable liquid), Class 3 petroleum, Danger grade

: Not applicable

Pollutant Release and

Transfer Register (PRTR)

Law

Industrial Safety and Health : Labeling(Delivery of Documents): Mineral oil 40-50%

Law

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Poisonous and Deleterious : Not applicable

Substance Control Law

Marine Pollution Protection : Waste Oil Regulation.

Sewage Control Law : Mineral Oil Disposal Regulation. (5mg/L)

Water Pollution Prevention

Waste Disposal and Public

Law

: Oil Disposal Regulation. (5mg/L)

: Industrial Waste Regulation.

Cleaning Law

16. OTHER INFORMATION

- Subscribe "%" in this document means weight percentage.

- 1. Recommendation of Occupational Exposure Limits (2018), Japanese Society of Occupational Health
- 2. Thresholds limit values for chemical substances and physical agents and biological exposure indices, ACGIH (2012)
- 3. SDS of EU suppliers (2010-2012)

- Japanese Standards Association (JSA), JIS Z 7253:2019, JIS Z 7252:2019
- National Institute of Technology and Evaluation (nite), "GHS Information"
- Ministry of Economy, Trade and Industry, Chemical Management site.
- Ministry of Health, Labour and Welfare, "Label and SDS information for GHS model"

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Contents of SDS updated periodically. SDS compliance is required as a rule to all business enterprises engaged in transaction of chemicals

(including products containing them) with other businesses. Retailer/ Wholesaler must provide newest SDS to customers.