

Safety Data Sheet (SDS)

Preparation Date 2013/09/17

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Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier SHINLUBE MULTI SUPER UNI No. 0, 1, 2
 Product Code E10-B-00315021
 Reference Number E10-B-00315021
 Company Name NIPPON STEEL & SUMIKIN CHEMICAL CO.,LTD.
 Address Akihabara UDX 13th floor, 14-1, Sotokanda 4-Chome, Chiyoda-ku, Tokyo, Japan
 Company Contact Lubricants Department, Chemicals Division
 Phone Number 03-5207-7622
 Fax Number 03-5207-7652
 Recommended Use and Restriction on Use Lubricant

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards Pyrophoric solids Not classified
 Corrosive to metals Not classified
 Other hazards than mentioned above are Not applicable or Classification not possible.

GHS Label Elements

Precautionary Statements

Prevention Precautionary Statements Do not handle until all safety precautions have been read and understood.(P202)
 Obtain special instructions before use.(P201)
 Do not eat, drink or smoke when using this product.(P270)
 Wear appropriate protective equipment to avoid inhalation and contact with human body.
 Use only outdoors or in a well-ventilated area.(P271)
 Do not breathe mist, vapours and spray.(P260)
 Wash hand thoroughly after handling.(P264)

Response Precautionary Statements

If swallowed, do not induce vomiting.
 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)
 If in eyes, rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do.(P305+P351+P338)
 IF exposed or concerned: Get medical advice and
 If swallowed, rinse mouth and get medical advice and attention.
 If eye irritation persists: Get medical advice and attention.(P337+P313)
 Get medical advice and attention if you feel unwell.(P314)

Storage Precautionary Statements

Store locked up.(P405)

Disposal Precautionary Statements

Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture Mixture

Chemical name or generic name Grease

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Thickener(Urea derivative)	Less than 5%	Confidential	Confidential	Confidential	Confidential
Highly refined mineral oils	90% above over	Unknown	(9)-1692	(9)-1692	72623-86-0
Additives	Less than 10%	Confidential	Confidential	Confidential	Confidential

Japanese Act of Industrial Safety and Health

Notifiable substance Mineral oil (Ordinance Number: 128) (90~100%)
(Article 57-2 of the Act,
appended Table 9 of
article 18-2 of Order)

Section 4 – FIRST AID MEASURES

Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
Skin Contact	Flush exposed area with water and follow by washing with soap if available. If skin irritation or rash occurs, get medical advice and attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When the ocular stimulation lasts, Seek medical treatment and advice.
Ingestion	Immediately call a doctor. Rinse mouth.
Personal Protection in First Aid and Measures	Wear appropriate protective gloves, protective glasses and face protection.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media	Foam, water spray or fog. Dry chemical powder
Unsuitable Extinguishing	Do not use water in a jet.
Specific Hazards	Containers may explode when heated. Fire may produce irritating, corrosive and/or toxic gases.
Specific Fire Fighting	For initial fire, use powder, carbon dioxide, dry sand, etc. Air is intercepted to a large-scale fire by using the fire foam. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is Use extinguishing agent suitable for type of surrounding fire.
Protection of Fire Figther	In fire fighting, wear respiratory protection and chemical protective

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	No information available
Environmental Precautions	This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and
Methods and Equipment for Containment and Cleaning up	Allow material to solidify, and scrape up. This material creates a fire hazard because it floats on water. If possible, try to contain floating material. After removal, flush contaminated area thoroughly with water. Vapor can be controlled using a water fog. Water streams should not be directed to the liquid as this will cause the liquid to boil and generate more vapor. Reduce airborne dust and prevent scattering by moistening with water. Vacuum or sweep up material and place in a disposal container. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.
Prevention Measures for Secondary Accidents	Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Remove thoroughly since the smooth and slippery surface will be formed on the floor.

Section 7 – HANDLING AND STORAGE

Handling	Avoid contact with flame, spark, and high temperature substance.
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	Prevent the emission of vapor as possible as thoroughly perform antistatic protection and wear electroconductive working clothes or safety boots.
	The use of the pump when taken out from the container.
	If there is a possibility of entering the eye , wear protective equipment .
	The container must be sealed.
Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
Precautions for Safe Handling	Avoid swallowing.
Prevents Handling of Incompatible Substances or Mixtures	Do not contact with halogen, strong oxidizer, strong acid/base. Refer to "Section 10 – STABILITY AND REACTIVITY".
Specific Hygiene Measures	Wash hand thoroughly after handling.
Storage Precautionary Statements	Keep container in a cool, well ventilated place.
	Keep container tightly closed.
Technical Measures	Do not use high temperature equipment, sparks, and flames around.
Material Used in Packaging/Containers	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Keep only in original container.
	Do not give pressure to empty container.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Japan Administration Level/Exposure Limits

	Japan Administration Level	Exposure Limits (Japan Society for	Exposure Limits (ACGIH)
Highly refined mineral oils	Not established	3mg/m ³ (as Mineral oil mist)	TWA 5mg/m ³ (as Mineral oil mist)

Engineering Controls	Good general ventilation should be sufficient to control airborne levels. No special ventilation requirements. Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower. Install ventilation system if gas generates in the process handling at elevated temperature.
Personal Protective Equipment	
Respiratory Protection	No information available
Hand Protection	Use personal gloves as required.
Eye Protection	Use personal eye protection as required.
Skin and Body Protection	Use personal face protection as required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	the others
Form	Paste
Colour	Pale yellow
Odour	Slight odor
Odour threshold	No data available
Initial Boiling Point and Boiling Ranges	No information available
Flash Point	225°C above over (SETA)
Evaporation Rate	No data available
Flammability or Explosive Limits	
Lower Limit	No data available
Upper Limit	No data available
Specific Gravity (Density)	0.89

Partition Coefficient : n-Octanol/Water	No information available
Auto-Ignition Temperature	No information available
Kinematic viscosity	No data available
Other Property	Dropping point : 260°C above over

Section 10 – STABILITY AND REACTIVITY

Reactivity	No information available
Chemical stability	Stable under normal use conditions.
Possibility of Hazardous Reaction	Not Self-reactive materials
Conditions to Avoid	Do not contact with strong oxidizer.
Incompatible Substances or Mixtures	Strong oxidizers.
Hazardous Decomposition Products	Harmful gases such as carbon monoxide are produced.

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	
Oral	Rat LD50 > 5000mg/kg (as Mineral oil) Classification Not Possible due to data shortage.
Dermal	Rat LD50 > 5000mg/kg (as Mineral oil) Classification Not Possible due to data shortage.
Skin Corrosion/Irritation	Classification Not Possible due to data shortage.
Serious eye damage/eye irritation	Classification Not Possible due to data shortage.

Section 12 – ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)	Classification not possible.
Hazardous to the aquatic environment (long-term)	Classification not possible.
Ecotoxicity	No information available.
Persistence	No information available.
Bioaccumulative Potential	No information available.
Mobility in Soil	No information available.
Hazardous to the ozone layer	No information available.

Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste	Disposal should be in accordance with applicable regulations and standards by the respective local governments. Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.
Contaminated Container and Packaging	Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments. In case of disposal of empty containers, remove the content thoroughly.

Section 14 – TRANSPORT INFORMATION

International Regulations	
Regulatory Information by Sea	Conform to the provisions of IMO.
UN No.	Not applicable
Transport in bulk according to MARPOL 73/78, Annex II, and the Regulatory Information by Air	Not applicable
Regulatory Information by Air	Conform to the provisions of ICAO/IATA.

UN No.	Not applicable
Regulations in Japan	Marine transportation: Follow transportation method designated in Ship Safety Law Air transportation: Follow Aviation Law Not dangerous goods
Regulatory Information by Road or Rail	Follow transportation method designated in Fire Service Law (Japan), Industrial Safety and Health Law (Japan), etc.
Regulatory Information by Sea	Conform to the provisions of the Ship Safety Law.
UN No.	Not applicable
Transport in bulk according to MARPOL 73/78,Annex II ,and the	Not applicable
Regulatory Information by Air	Conform to the provisions of the Civil Aeronautics Law.
UN No.	Not applicable

Section 15 – REGULATORY INFORMATION

Japanese Act of Industrial Safety and Health	Notifiable substance (Article 57-2 of the Act, appended Table 9 of article 18-2 of Order) Mineral oil(No.168)
Japanese Act of Fire Service	Not dangerous goods

Section 16 – OTHER INFORMATION

Literature References	1) National Institute of Technology and Evaluation (NITE), Database of the result of GHS classification. 2)Database for JCSCL (J-CHECK) 3)Announcement No. 369, Ministry of Health, Labor and Welfare, 2004 4)American Conference of Governmental Industrial Hygienists (ACGIH) “TLVs and BELs 2013” 5)Japan society for occupational health「Occupational Exposure Limits(2012)」
Other Property	The descriptions herein are based on the currently available sources and information but no guarantee is given to the data and evaluation.The precautions herein are for normal handling. If you use this product under the pecial conditions,take safety measures appropriate for the pecial use and usage.