

## Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name: REEL GREASE SPRAY SP-023A  
Number : 5YJ842100\_Eng

#### Company Identification

Manufacture & Distributor : SHIMANO NORTH AMERICA FISHING, INC.  
Address : 9560 Palmetto Commerce Parkway Ladson, South Carolina 29456 U.S.A.  
Emergency Phone number : +1-949-951-5003

Manufacture & Distributor : SHIMANO EUROPE B.V.  
Address : High Tech Campus 92 NL-5656 AG Eindhoven, The Netherlands  
Emergency Phone number : +31-40-2612222

Manufacture & Distributor : SHIMANO INC.  
Address : 3-77 Oimatsu-cho Sakaiku Sakai OSAKA 5908577, JAPAN  
Emergency Phone number : 0570-031961

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

<Physical hazards>	FLAMMABLE AEROSOLS	Category 1
	FLAMMABLE LIQUIDS	Category 2
<Health hazards>	ACUTE TOXICITY (Vapours)	Category 5
	ACUTE TOXICITY (Mists)	Category 5
	SKIN CORROSION/IRRITATION	Category 2
	SERIOUS EYE DAMAGE /EYE IRRITATION	Category 2A-2B
	GERM CELL MUTAGENICITY	Category 2
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY SINGLE	Category 1
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY REPEATED	Category 1
ASPIRATION HAZARD	Category 1	
<Environmental hazards>	HAZARDOUS TO THE AQUATIC ENVIRONMENT	ACUTE : Category 1 CHRONIC : Category 1

#### <Hazards symbol>



<Signal word> DANGER

- <Hazard communication>
- Extremely flammable aerosol
  - Highly flammable liquid and vapour
  - Harmful if inhaled
  - Causes mild skin irritation
  - Causes eye irritation
  - Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
  - Causes damage to organs (Lungs, Skin, Liver) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
  - May be fatal if swallowed and enters airways
  - Very toxic to aquatic life
  - Very toxic to aquatic life with long lasting effects

Cautions

- <Safety measurements>
- Do not handle until all safety precautions have been read and understood.
  - Keep away from ignition sources such as heat, sparks, or open flame.
  - Use only non-sparking tools.
  - Do not breathe mist and vapor.
  - Use only in a outdoor or well-ventilated area.
  - Avoid release to the environment.
  - Do not eat, drink or smork when using this product.
  - Wear appropriate protective gloves, glasses, clothes, face shield, or mask.
  - Wash hands thoroughly after handling.

- <First-aid measures>
- If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical treatment if you feel unwell.
  - If swallowed : Rinse mouth, do not induce vomiting. Immediately get medical treatment.
  - If eye contact : Rinse cautiously with water for at least 15 minutes. Get medical treatment.
  - If skin contact : Wash hands thoroughly after handling. Remove contaminated clothing and the substance. Get medical treatment, if you feel unwell.

- <Storage>
- Store in cool, dry, well-ventilated location. Keep away from heat and all possible source of ignition(temperature below 40°C)and keep away from sunlight.
  - Follow all regulation in your country.

- <Disposal>
- Follow all regulation in your country.

### 3. CONPOSITION/INFORMATION ON INGRREDIENTS

Substance/Mixture : Mixture  
Chemical Product Name : AEROSOL TYPE LUBRICATING OIL

Composition

	Refined Mineral Oils	Thickener (Lithium soap)	Iso-hexane	Additives	Liquefied petroleum gas
Composition Mass%	40 ~ 50%	1 ~ 5%	20 ~ 25%	1 ~ 5%	20 ~ 25%
CAS.No.	---	---	107-83-5 96-14-0	---	74-98-6 106-97-8,75-28-5

#### 4. FIRST AID MEASURES

- Eye Contact : Gently rinse the affected eyes with clean water for at least 15 minutes. And refer for medical attention.
- Skin contact : Remove all contamination with clothes and wash the affected area with water and soap. If irritation persists, or abnormal conditions are found, arrange examination and treatment by a physician.
- Inhalation : In case of large inhalation, remove the victim from the contamination to fresh air. Keep the victims warm and quiet. If breathing is weak, irregular or has stopped, administer artificial respiration. Arrange examination and treatment by a physician as soon as possible. In case of vapor, gas, remove the victim from the contamination to fresh air and arrange examination and treatment by a physician as soon as possible.
- Ingestion : Rinse mouth with water and dilute with water. Do not induce vomiting as this may increase the risk of aspiration of the liquid into the lungs causing chemical pneumonitis. Consumption of non-oily liquids (such as milk) may assist in delaying absorption of the liquid. Arrange examination and treatment by a physician as soon as possible.

#### 5. FIRE FIGHTING MEASURES

Fire-Fighting:

1. Shut off fuel to fire.
2. In case of small fire, use dry chemical powder or carbon dioxide.
3. In case of large fire, foam spray is effective to stop flow-in of air.
4. Watering may enlarge fire and increase risks.
5. Water the neighbors for cooling.
6. Keep personnel removed from and upwind fire.
7. Firefighters should wear proper protective equipment.
8. Evacuate personnel to safe area.
9. Use extreme caution, as aerosol containers may rupture.
10. Water heated containers for cooling.

Special hazards with regards to

- Fire-Fighting measures: Toxic gases (carbon monoxide) will form upon combustion. Pay attention to burst of container due to heat.

- Extinguishing media : Dry chemical powder, foam or carbon dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

1. Provide advice related to accidental spills and release of the substance or mixture such as: the wearing of suitable protective equipment (including personal protective equipment, see Section 8 of the SDS) to prevent any contamination of skin, eyes and personal clothing;
2. Provide advice related to accidental spills and release of the substance or mixture such as: removal of ignition sources and provision of sufficient ventilation;
3. Provide advice related to accidental spills and release of the substance or mixture such as: emergency procedures such as the necessity to evacuate the danger area or to consult an expert.

Environmental precautions : Provide advice on any environmental precautions related to accidental spills and release of the substance or mixture, such as keeping away from drains, surface and ground water.

Methods and materials for containment and cleaning up :

1. Provide appropriate advice on how to contain and clean up a spill.  
Appropriate containment techniques may include:  
bundling, covering of drains; and capping procedures.
2. Appropriate clean up procedures may include: equipment required for containment/clean up (include the use of non-sparking tools and equipment where applicable).

Provide any other issues relating to spills and releases. For example, including advice on inappropriate containment or clean up techniques.

## 7. HANDLING AND STORAGE

Handling:

- Precautions for safe handling :
1. Provide advice that: allows safe handling of the substance or mixture; prevents handling of incompatible substances or mixtures; and minimizes the release of the substance or mixture to the environment.
  2. It is good practice to provide advice on general hygiene. For example: "eating, drinking and smoking in work areas is prohibited"; "wash hands after use"; and "remove contaminated clothing and protective equipment before entering eating

STORAGE

Conditions for safe storage,  
including any incompatibilities :

- Ensure that the advice provided is consistent with the physical and chemical properties in Section 9 – Physical and chemical properties of the SDS. If relevant, provide advice on specific storage requirements including:
- (a) How to avoid: explosive atmospheres; corrosive conditions; flammability hazards; incompatible substances or mixtures; evaporative conditions; and potential ignition sources (including electrical equipment).
  - (b) How to control the effects of: weather conditions; ambient pressure; temperature; sunlight; humidity; and vibration.
  - (c) How to maintain the integrity of the substance or mixture by the use of: stabilizers; and anti-oxidants.
  - (d) Other advice including: ventilation requirements; specific designs for storage rooms/vessels; quantity limits under storage conditions (if relevant); and packaging compatibilities.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures :
1. For prolong works inside, provide ventilation equipment or close the source of ignition.
  2. For use of large quantity outside, electric equipment shall be of explore-proof and earthed.
  3. Make available in work area emergency shower, hand wash, eye wash and clearly indicate the location thereof.

Control parameters :	Composition		Refined Mineral Oils
	ACGIH	TLV-TWA	3 mg/m <sup>3</sup>

### Personal protective equipment (PPE)

Eye/face protection : Specify the type of eye protection and/or face shield required, based on the hazard of the substance or mixture and potential for contact;

Skin protection : Specify the protective equipment to be worn (e.g. type of gloves, boots, bodysuit) based on the hazards associated with the substance or mixture and the potential for contact;

Respiratory protection : Specify appropriate types of respiratory protection based on the hazard and potential for exposure, including air-purifying respirators and the proper purifying element (cartridge or canister) or breathing apparatus;

Thermal hazards : When specifying protective equipment to be worn for materials that represent a thermal hazard, special consideration should be given to the construction of the PPE.

Consistent with good occupational hygiene practices, personal protective equipment (PPE) should be used in conjunction with other control measures, including engineering controls, ventilation and isolation. See also Section 5 – Fire- fighting measures of the SDS for specific fire/chemical PPE advice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state, form : Semi-solid (Lubricating oil)

Color : Milky White

Odor : Mineral oil smell (Lubricating oil)

pH: None

Boiling point : No data

Melting point : 185°C(Lubricating oil)

Flash point : Under -30°C(Solvent)

Auto-ignition point : 280°C(Solvent)

Exposition characteristic

exposition limit: upper : 7.0vol%, lower : 1.0vol%(Base oil)

Density: 0.806g/cm<sup>3</sup>(Lubricating oil)

Solubility in organic solvent : Miscible with many kind of organic solvents (Lubricating oil)

Solubility in water : Insoluble(Lubricating oil)

## 10. STABILITY/REACTIVITY

Reactivity : Describe the reactivity hazards of the substance or mixture in this section. Provide specific test data for the substance or mixture as a whole, where available. However, the information may also be based on general data for the class or family of chemical if such data adequately represent the anticipated hazard of the substance or mixture.

Chemical stability : Indicate if the substance or mixture is stable or unstable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Describe any stabilizers which are, or may need to be, used to maintain the product. Indicate the safety significance of any change in the physical appearance of the product.

Possibility of hazardous

reactions : If relevant, state if the substance or mixture will react or polymerize, releasing excess pressure or heat, or creating other hazardous conditions. Describe under what conditions the hazardous reactions may occur.

Conditions to avoid

: List conditions such as heat, pressure, shock, static discharge, vibrations or other physical stresses that might result in a hazardous situation.

Incompatible materials

: List classes of chemicals or specific substances with which the substance or mixture could react to produce a hazardous situation (e.g. explosion, release of toxic or flammable materials, liberation of excessive heat).

Hazardous Decomposition Products

: List known and reasonably anticipated hazardous decomposition products produced as a result of use, storage and heating. Hazardous combustion products should be included in Section 5 - Fire-fighting measures of the SDS.

## 11. TOXICOLOGICAL INFORMATION

Corrosively and irritant

properties : No relevant information found

Allergenic and sensitizing : No relevant information found

effects

Acute toxicity :

COMPOSITION	LD50
Refined Mineral Oils	Over 5~10g/kg
Iso-hexane	20~30g/kg

Chronic toxicity : No relevant information found

Carcinogenic effects : No relevant information found

Mutagenic effects : No relevant information found

Effects on the preproductive system

: No relevant information found

Teratogenic effects : No relevant information found

Other information : Other relevant information on adverse health effects should be included even when not required by the GHS classification criteria.

## 12. ECOLOGICAL INFORMATION

Bio degradability : This substance is not biodegradable.

Bio accumulation : No relevant information found

Fish toxicity : No relevant information found

## 13. DISPOSAL CONSIDERATIONS

1. Do not throw the container into fire, as the container contains flammable gases, organics solvent of extremely high flammability.
2. Do not dump into sewers, on the ground or into any body of water.
3. Disposal shall be in accordance with the concerned rules and regulation.
4. Follow all regulation in your country.

## 14. TRANSPORT INFORMATION

UN Class : Class2.1 (Compressed gas)

UN Number : 1950 (Aerosols, flammable)

Specific precautionary transport measures and conditions.

Follow all regulation in your country.

## 15. REGULATORY INFORMATION

Follow all regulation in your country.

## **16. OTHER INFORMATION**

All materials may present unknown hazard and should be used in caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

Complied by : NICHIMOLY Div. DAIZO CORPORATION  
Shimano Inc.

Reference : NICHIMOLY Div. DAIZO CORPORATION, 1 Mar 2016,  
"REEL GREASE SPRAY SP-023A",  
Safety Data Sheet, 10593G -(1)E, NICHIMOLY Div. DAIZO CORPORATION

### Disclaimer

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We have reviewed any information contained herein which we received from sources outside SHIMANO INC..

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