MOLYBDENUM GREASE SPRAY (MGS-420)	SDS No.	591446
TRUSCO NAKAYAMA CORPORATION	Revision Date	Mar. 26, 2025

SAFETY DATA SHEET(SDS)

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	MOLYBDENUM GREASE SPRAY (MGS-420)
Company Name	:	TRUSCO NAKAYAMA CORPORATION
Address	:	28-1 SHINBASHI 4-chome,MINATO-KU,TOKYO,JAPAN
Phone Number	:	0120-509-849
Fax Number	:	0120-509-839
Mail Address	:	techno.center@trusco.co.jp

2 HAZARDS IDENTIFICATION

Hazards Category

Aerosols	:	Category 1
Specific Target Organ Systemic Toxicity(Single Exposure)	:	Category 3
Specific target organ systemic toxicity(Repeated exposure)	:	Category 1

The one without the description cannot be classified.

Allocation of Label Elements

Pictogram

Flame

Exclamation mark

Health Hazard



Signal Word

Danger

Hazard Statement

Extremely flammable aerosol

Pressurized container : may burst if heated

May cause respiratory irritation; or May cause drowsiness or dizziness

Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

Prevention

Before use, read the safe data sheet (SDS).

Keep out of reach of children.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Do not spray on an open flame or other ignition source.

Do not burn, even after use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash points of contact thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection/respiratory protection.

Response

In case of fire : Use dry chemical, carbon dioxide(CO2), and foam to extinguish.

IF SWALLOWED : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

IF ON SKIN : Wash with plenty of soap and water.

If skin irritation or rash occurs : Get medical advice/attention.

IF INHALED : Remove person to fresh air and keep comfortable for breathing.
Get medical advice/attention if you feel unwell.

IF IN EYES : Rinse cautiously with water for several minutes. Get medical advice/attention.

Storage

Store locked up.

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Protect from sunlight. Do not expose to temperatures exceeding 40℃.

Disposal

Dispose of contents /container in accordance with local/regional/national/international regulations.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients and Contents

Component name	CAS number	wt%
Mineral oil	Trade secret	40～50
Lithium soap	Trade secret	1～5
Molybdenum disulfide	1317-33-5	<1
Propane	74-98-6	10～20
Butane	106-97-8	35～45

4 FIRST-AID MEASURES

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if you feel unwell.

Skin

Wash with plenty of soap and water.

Call a physician if you feel unwell.

Eye

Immediately flush eyes with plenty of water for at least 15 minutes.

Call a physician.

Ingestion

Rinse mouth. Do not induce vomiting.

Call a physician.

5 FIRE-FIGHTING MEASURES

Extinguishing Media

Dry chemical, carbon dioxide(CO2), and foam

Specific Fire Fighting

Must not use water to extinguish fires.

Quickly removed from the surrounding flammable.

The use of extinguishing agents specified.

Fire fighting is done from the windward.

On small fires use carbon dioxide (CO2) or dry chemical.

On large fires use dry chemical or foam.

Sealed containers that are exposed to high temperatures over the water to cool.

Protection for Fire-fighter

Wear full body protective clothing with breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective equipments in case of operation.

Environmental Precautions

Avoid release to the environment.

Methods for Cleaning Up

Remove potential ignition source in vicinity as soon as possible.

Prepare extinguishing agent.

Prevent leakage by enclosing with nonflammables and collect into empty container by scoop or the like.

Absorbed to non-flammable dry sand, if a large amount of spill to prevent enclosed in embankment.

If do not stop the leakage from the container, releasing carried away in a place not at risk of being open.

Spilled material is collected in a container that can be sealed, then remove to safe place.

Deposits, waste treatment is based on the local regulations.

Working from the windward, to evacuate people downwind.

7 HANDLING AND STORAGE

Handling

Use in a well ventilated area.
Keep away from heat, spark and flames.
Use spark-proof tools and explosion-proof equipment.
After handling, wash well hands and face and rinse your mouth.
Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower.
Leakage, overflow, to prevent scattering, we do not generate steam in vain.
In the handling area and deny unnecessary entry.
Resting place shall not bring contaminated protective equipment such as gloves.
Wear protective equipments when risk of exposure occurs.
To work in an enclosed area that you work with appropriate protective equipment with a local exhaust ventilation sufficient.

Precautions

Do not breathe vapor or mist.
Handling of the outdoors, as much as possible to work from the windward.
Do not handle in a fire place.
Do not handle in the place more than 40 ℃.
Do not use continuously for more than 30 seconds.
Do not store near heat or open flame areas exposed to direct sunlight.
Not want to use toward food and the human body.

Handling Precautions for Safety

Avoid physical damage to containers.

Storage

Fire prohibited strictly.
Do not store in direct sunlight or where more than 40 ℃.
Keep away from sources of ignition.
Store in a cool, dry, well-ventilated area away from incompatible substances.
Note that because there is a risk of corrosion and rupture the container is stored in a moisture or humid place.
Store in a tightly closed container.

Safe containers and packaging materials

None in particular.

8 EXPOSURE/PERSONAL PROTECTION

Engineering Controls

Handling equipment is used explosion-proof.
Attach an exhaust device to prevent vapor from staying.
That the equipment and shall become hot, and the source of ignition in the vicinity of the location, such as handling not been placed.
Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limit Values

Chemical name	ACGIH
Mineral oil	TWA 5mg/m3(mist)
Molybdenum disulfide	TWA 3mg/m3
Propane	TWA 1,000ppm
Butane	TWA -, STEL (1000ppm)

Personal Protective Equipment

Respiratory Protection

Respirator for organic gases

Skin Protection

Solvent-resistant gloves

Eye Protection

Wear chemical worker's goggles.

Skin and body protection

Such as long-sleeved work clothes

Hygiene measures

Do not eat, drink or smoke during work.
Replacement of the adsorbent, such as the mask is performed each time or use plans.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid (Base liquid)
Color	:	Dark gray
Odor	:	Oil odor
pH	:	Not available
Boiling Point(℃)	:	Not available
Melting Point(℃)	:	Not available
Flammability	:	Not available
Flash point(℃)	:	≧ 200
Auto-ignition Temperature(℃)	:	Not available
Flammability or Explosive Limits		
Lower	:	Not available
Upper	:	Not available
Vapour Pressure (KPa)	:	Not available
Vapour Density	:	Not available
Relative density(g/cm3)	:	0.89
Solubility	:	Insoluble in water
Partition Coefficient: n-octanol/water	:	Not available
Decomposition Temperature(℃)	:	Not available
Dynamic viscosity rate	:	Not available
Relative gas density	:	Not available
Particle properties	:	Not available

10 STABILITY AND REACTIVITY

Stability

Stable under normal temperatures and pressures.

Reactivity

No self-reactive

Conditions to Avoid

Heat, flames, ignition sources and incompatibles.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and other oxidized substances.

11 TOXICOLOGICAL INFORMATION

Chemical name	Acute toxicity (oral)	Acute toxicity (dermal)	Acute toxicity (inhalation: gas)	Acute toxicity (inhalation: vapour)	Acute toxicity (inhalation: dust, mist)	Skin corrosion / irritation	Serious eye damage / eye irritation
Mineral oil	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Lithium soap	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Molybdenum disulfide	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Classification not possible	Classification not possible	Classification not possible
Propane	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Classification not possible
Butane	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Classification not possible	Classification not possible

Chemical name	Respiratory/skin sensitizer	Germ cell mutagenicity	Carcinogenicity	Toxic to reproduction	Specific target organs/systemic toxicity following single exposure	Specific target organs/systemic toxicity following repeated exposure	Aspiration hazard
Mineral oil	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Lithium soap	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Molybdenum disulfide	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Propane	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Category 3 (narcotic effects)	Classification not possible	Not applicable to category
Butane	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Category 3 (narcotic effects)	Category 1 (central nervous system)	Not applicable to category

12 ECOLOGICAL INFORMATION

Chemical name	Hazardous to the aquatic environment (Acute)	Hazardous to the aquatic environment (Chronic)	Hazard to the ozone layer	Residuality and decomposition	Ecological accumulation	Mobility in soil
Mineral oil	Classification not possible	Classification not possible	Classification not possible	No data	No data	No data
Lithium soap	Classification not possible	Classification not possible	Classification not possible	No data	No data	No data
Molybdenum disulfide	Classification not possible	Classification not possible	Classification not possible	No data	No data	No data
Propane	Classification not possible	Classification not possible	Classification not possible	No data	No data	No data
Butane	Classification not possible	Classification not possible	Classification not possible	No data	No data	No data

13 DISPOSAL CONSIDERATIONS

Dispose of contents /container in accordance with local/regional/national/international regulations.

14 TRANSPORT INFORMATION

UN Class

Aerosols, flammable, Class 2.1

UN No.

UN1950

Packing Group

Not regulated.

15 REGULATORY INFORMATION

Follow all regulations in your country.

16 OTHER INFORMATION

References

JIS Z 7253 (2019)

GHS data-base (NITE)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.