

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Product name. : JL-M Lubricant
 Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Lubricant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Superbolt, Inc.
 1000 Gregg Street
 Carnegie, PA 15106
 T (412) 279-1149
www.nord-lock.com/

EU Distributor:

Nord-Lock AG
 Rietwiesstrasse 2
 CH-8735, St. Gallenkappel, Switzerland
 T 41-55-284-6464
www.nord-lock.com/

1.4. Emergency telephone number

Emergency number : (412) 279-1149 (Monday- Friday from 7:30 am – 4:30 pm; North American Eastern Time Zone)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Molybdenum Disulfide	(CAS No.) 1317-33-5 (EC no) 215-263-9 (REACH-no) Not available, yet	< 60	Not classified
Distillates (petroleum), hydrotreated heavy paraffinic	(CAS No.) 64742-54-7 (EC no) 265-157-1 (EC index no) 649-467-00-8 (REACH-no) Not available, yet	< 35	Carc.Cat.2; R45 [Note L]
Distillates (petroleum), solvent-dewaxed heavy paraffinic	(CAS No.) 64742-65-0 (EC no) 265-169-7 (EC index no) 649-474-00-6 (REACH-no) Not available, yet		Carc.Cat.2; R45 [Note L]
Graphite	(CAS No.) 7782-42-5 (EC no) 231-955-3 (REACH-no) Not available, yet	< 15	Not classified
Quartz	(CAS No.) 14808-60-7 (EC no) 238-878-4 (REACH-no) Not available, yet	< 0.5	T; R48/23

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Molybdenum Disulfide	(CAS No.) 1317-33-5 (EC no) 215-263-9 (REACH-no) Not available, yet	< 60	Not classified
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Full text of R-, H- and EUH-phrases: see section 16

3.3. Note

The classification as a carcinogen does not apply because the substances in the mixture contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation persists, seek medical attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water, also under the eyelids. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Symptoms include : Redness. Blurred vision.
Symptoms/injuries after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Decomposition products may be a hazard to health.
Explosion hazard	: Exposure to fire may cause containers to rupture/explode.
Reactivity	: Stable under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing gloves, and eye/face protection.
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Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean spills promptly. Wear proper protective equipment. Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage condition(s) : Keep only in the original container in a cool, well ventilated place away from : open sparks and flame. Keep container closed when not in use.

Incompatible products : Strong oxidizing agents.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Molybdenum Disulfide (1317-33-5)		
Austria	MAK (mg/m ³)	10 mg/m ³
Austria	MAK Short time value (mg/m ³)	20 mg/m ³
Belgium	Limit value (mg/m ³)	10 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	10
Greece	OEL TWA (mg/m ³)	15 mg/m ³ (insoluble compounds)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (insoluble compounds, total dust)
Spain	VLA-ED (mg/m ³)	10 mg/m ³ (inhalable fraction)
Switzerland	VME (mg/m ³)	10 mg/m ³ (inhalable dust)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	20 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	25 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	5 mg/m ³
Hungary	AK-érték	15 mg/m ³ (insoluble compounds)
Hungary	CK-érték	60 mg/m ³ (insoluble compounds)
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ (inhalable fraction)
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m ³)	10 mg/m ³
Romania	OEL TWA (mg/m ³)	5 mg/m ³ (insoluble compounds)
Romania	OEL STEL (mg/m ³)	10 mg/m ³ (insoluble compounds)
Slovakia	NPHV (priemerná) (mg/m ³)	10 mg/m ³ (inhalable fraction)
Sweden	nivågränsvärde (NVG) (mg/m ³)	10 mg/m ³
Canada (Quebec)	VECD (mg/m ³)	10 mg/m ³ (insoluble compounds)
Australia	TWA (mg/m ³)	10 mg/m ³ (Insoluble compounds)

Graphite (7782-42-5)

Austria	MAK (mg/m ³)	5 mg/m ³ (respirable fraction)
Austria	MAK Short time value (mg/m ³)	10 mg/m ³ (respirable fraction)

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Graphite (7782-42-5)		
Belgium	Limit value (mg/m ³)	2 mg/m ³ (respirable fraction)
Bulgaria	OEL TWA (mg/m ³)	5 mg/m ³ (inhalable fraction)
France	VLE (mg/m ³)	2 mg/m ³ (respirable fraction)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1.5 mg/m ³ (respirable fraction)
Greece	OEL TWA (mg/m ³)	5 mg/m ³ (respirable fraction)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (respirable fraction)
Latvia	OEL TWA (mg/m ³)	2 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	2.5 mg/m ³ (respirable fraction)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ (respirable fraction)
Spain	VLA-ED (mg/m ³)	2 mg/m ³
Switzerland	VME (mg/m ³)	2.5 mg/m ³ (respirable dust)
United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³ (respirable dust)
Denmark	Grænseværdie (kortvarig) (mg/m ³)	2.5 mg/m ³ (respirable fraction)
Finland	HTP-arvo (8h) (mg/m ³)	2 mg/m ³ (respirable fraction)
Ireland	OEL (8 hours ref) (mg/m ³)	4 mg/m ³ (respirable dust)
Poland	NDS (mg/m ³)	1 mg/m ³ (respirable dust)
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (total dust)
Canada (Quebec)	VECD (mg/m ³)	2 mg/m ³ (respirable dust)
Australia	TWA (mg/m ³)	3 mg/m ³ (respirable dust)

Quartz (SiO ₂) (14808-60-7)		
Austria	MAK (mg/m ³)	0.15 mg/m ³
Austria	Remark (AT)	(alveolengängige Fraktion; Jahres-Miw)
Belgium	Limit value (mg/m ³)	0.1 mg/m ³
Belgium	Remark*	(poussières alvéolaires)
Bulgaria	OEL TWA (mg/m ³)	0.07 mg/m ³
Switzerland	VME (mg/m ³)	0.15 mg/m ³
Switzerland	Remark (CH)	(respirable aerosol)
Romania	OEL TWA (mg/m ³)	0.1 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	0.1 mg/m ³
Canada (Quebec)	Notations and remarks	(la poussière respirable)

8.2. Exposure controls

Appropriate engineering controls	: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Protective goggles. Gloves.
	 
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.
Other information	: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Paste.
Colour	: Dark grey.
odour	: Mild petroleum odor.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available

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Boiling point	: > 315 °C
Flash point	: 190 °C
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: < 0.1 mm Hg
Relative vapour density at 20 °C	: > 2 (Air = 1)
Relative density	: 4.8
Solubility	: Water: Negligible in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive
Oxidising properties	: Not oxidizing
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Product will not undergo polymerization.

10.4. Conditions to avoid

Heat, open flame, sparks, hot surfaces, ignition sources, elevated temperature.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

On combustion, forms: fume. Carbon monoxide. Carbon dioxide. Sulfur oxides. Aldehydes. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified Based on available data, the classification criteria are not met
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met The classification as a carcinogen does not apply because the substances in the mixture contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London.
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met

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Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

JL-M Lubricant	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

JL-M Lubricant	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

No dangerous good in sense of transport regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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according to Regulation (EC) No. 453/2010

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

Other regulations, restrictions and prohibition regulations : Compliance with following regulations: Directive 1999/45/EC as amended. Directive 67/548/EEC as amended. Regulation (EC) 1272/2008 as amended. Regulation (EC) 1907/2006 as amended.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Revision - See : *. Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP].

Sources of Key data : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Abbreviations and acronyms : ATE - acute toxicity estimate. BCF - bioconcentration factor. CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. GHS - Globally Harmonised System. MSDS - Material Safety Data Sheet. Overland transport (ADR). PBT - Persistent, Bioaccumulative and Toxic substance. PEL- Permissible Exposure Level. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. Relat - Relative. SDS - Safety Data Sheet . STEL- Short-Term Exposure Limit . TLV- Threshold Limit Value. TWA- Time Weighted Average. UVCB - Substances of Unknown or Variable composition, Complex reaction products or Biological materials . vPvB - Very Persistent and Very Bioaccumulative.

Other information : None.

Full text of R-, H- and EUH-phrases::

Carc. 1B	Carcinogenicity Category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure
R45	May cause cancer.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
T	Toxic

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.