

## Safety data sheet according to 830/2015/EC

Printing date: 22.04.2016

Revision: 22.04.2016

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

· **1.1 Product identifier**

- Trade name: **Starrett M-1 All Purpose Lubricant Low VOC AEROSOL**
- Product code: MI95173,MI93201

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

· **Sector of Use**

- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- SU21 Consumer uses: Private households / general public / consumers
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Application of the substance / the mixture:** Lubricant

- **Uses advised against:** Contact manufacturer.

· **1.3 Details of the supplier of the Safety Data Sheet**

· **Manufacturer/Supplier:**

The L.S. Starrett Company  
121 Crescent St.  
Athol, MA 01331  
(978) 249-3551

· **1.4 Emergency telephone number:**

ChemTel Inc.  
+1 (800)255-3924, +1 (813)248-0585

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Aerosol 2	H223-H229	Flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

carbon dioxide

· **Hazard statements**

H223-H229 Flammable aerosol. Pressurised container: May burst if heated.  
H315 Causes skin irritation.

(Cont'd. on page 2)

## Safety data sheet

according to 830/2015/EC

Printing date: 22.04.2016

Revision: 22.04.2016

**Trade name: Starrett M-1 All Purpose Lubricant Low VOC AEROSOL**

(Cont'd. from page 1)

- H336 May cause drowsiness or dizziness.  
 H304 May be fatal if swallowed and enters airways.  
 H411 Toxic to aquatic life with long lasting effects.

• **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P251 Pressurized container: Do not pierce or burn, even after use.  
 P211 Do not spray on an open flame or other ignition source.  
 P261 Avoid breathing mist/vapors/spray.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P405 Store locked up.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

• **Additional information:**

75,0 % by mass of the contents are flammable

• **2.3 Other hazards**

• **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.  
 • **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

• **3.2 Mixtures**

• **Components:**

CAS: 64742-47-8 EINECS: 265-149-8 Index number: 649-422-00-2	Distillates (petroleum), hydrotreated light ☠ Asp. Tox. 1, H304	60-80%
CAS: 8009-03-8 EINECS: 232-373-2 Index number: 649-254-00-X	Petrolatum ☠ Carc. 1B, H350	≤10%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide ⚠ Press. Gas L, H280	2,5-5%

- **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

### SECTION 4: First aid measures

• **4.1 Description of first aid measures**

• **General information:**

In case of irregular breathing or respiratory arrest provide artificial respiration.  
 Take affected persons out into the fresh air.  
 Do not leave affected persons unattended.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

Generally the product does not irritate the skin.  
 Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.

(Cont'd. on page 3)

## Safety data sheet

according to 830/2015/EC

Printing date: 22.04.2016

Revision: 22.04.2016

**Trade name: Starrett M-1 All Purpose Lubricant Low VOC AEROSOL**

(Cont'd. from page 2)

- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Unlikely route of exposure.  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Slight irritant effect on eyes.
- **Hazards:**  
May be fatal if swallowed and enters airways.  
Danger of impaired breathing.  
Causes skin irritation.  
Vapours have narcotic effect.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Keep away from ignition sources.
- **6.2 Environmental precautions** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up**  
Absorb liquid components with liquid-binding material.  
Clean the affected area carefully; suitable cleaners are:  
Warm water and cleansing agent
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

(Cont'd. on page 4)

## Safety data sheet

according to 830/2015/EC

Printing date: 22.04.2016

Revision: 22.04.2016

**Trade name: Starrett M-1 All Purpose Lubricant Low VOC AEROSOL**

See Section 13 for disposal information.

(Cont'd. from page 3)

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

No special precautions are necessary if used correctly.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

- **Information about fire - and explosion protection:**

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**64742-47-8 Distillates (petroleum), hydrotreated light**

MAK (Germany)	Long-term value: 350* 5A** mg/m <sup>3</sup> , 50* ppm vgl. Abschn. Xc; *Dampf; **Aerosol
---------------	--

**124-38-9 carbon dioxide**

IOELV (EU)	Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
WEL (Great Britain)	Short-term value: 27400 mg/m <sup>3</sup> , 15000 ppm Long-term value: 9150 mg/m <sup>3</sup> , 5000 ppm
AGW (Germany)	Long-term value: 9100 mg/m <sup>3</sup> , 5000 ppm 2(II); DFG, EU

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**



Protective gloves

(Cont'd. on page 5)

## Safety data sheet

according to 830/2015/EC

Printing date: 22.04.2016

Revision: 22.04.2016

**Trade name: Starrett M-1 All Purpose Lubricant Low VOC AEROSOL**

(Cont'd. from page 4)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

Butyl rubber, BR

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance**

**Form:** Aerosol  
**Colour:** Amber coloured

- **Odour:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Melting point/Melting range:** Not determined.

- **Boiling point/Boiling range:** Boiling Point Range: 370 - 470 ° F / 187,8 - 243,3 °C.  
Not applicable, as aerosol.

- **Flash point:** 67 °C

- **Flammability (solid, gaseous):** Not applicable.

- **Auto/Self-ignition temperature:** 210 °C

- **Decomposition temperature:** Not determined.

- **Danger of explosion:** Not determined.

- **Explosion limits**

**Lower:** 0,5 Vol %

**Upper:** 6,5 Vol %

- **Vapour pressure at 21 °C:** 59700 hPa (866 psia)

(Cont'd. on page 6)

## Safety data sheet

according to 830/2015/EC

Printing date: 22.04.2016

Revision: 22.04.2016

**Trade name: Starrett M-1 All Purpose Lubricant Low VOC AEROSOL**

(Cont'd. from page 5)

- |   |  |
|---|--|
| <b>· Density at 20 °C:</b>                        | 0,8 g/cm <sup>3</sup>                      |
| <b>· Relative density:</b>                        | Not determined.                            |
| <b>· Vapour density:</b>                          | Not determined.                            |
| <b>· Evaporation rate:</b>                        | Not applicable.                            |
| <b>· Solubility in / Miscibility with water:</b>  | Not miscible or difficult to mix.          |
| <b>· Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| <b>· Viscosity</b>                                |  |
| <b>Dynamic:</b>                                   | Not determined.                            |
| <b>Kinematic:</b>                                 | Not determined.                            |
| <b>· 9.2 Other information</b>                    | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Danger of receptacles bursting because of high vapour pressure when heated.  
Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products** Carbon monoxide and carbon dioxide

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect**
- **Skin corrosion/irritation:**  
Causes skin irritation.
- **Serious eye damage/irritation:** Slight irritant effect on eyes.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

**· IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

- **Probable routes of exposure:**  
Skin contact.  
Eye contact.  
Ingestion.  
Inhalation.

(Cont'd. on page 7)

## Safety data sheet

according to 830/2015/EC

Printing date: 22.04.2016

Revision: 22.04.2016

**Trade name: Starrett M-1 All Purpose Lubricant Low VOC AEROSOL**

(Cont'd. from page 6)

- **Acute effects (acute toxicity, irritation and corrosivity):**  
Fatal if swallowed or in contact with skin.  
Vapours have narcotic effect.  
Irritating to skin.
- **Repeated dose toxicity:** From product as supplied: None.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:**  
May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Moderately /partly biodegradable
- **12.3 Bioaccumulative potential**  
Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Hand over to hazardous waste disposers.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

(Cont'd. on page 8)

## Safety data sheet

according to 830/2015/EC





Printing date: 22.04.2016

Revision: 22.04.2016

<b>Trade name: Starrett M-1 All Purpose Lubricant Low VOC AEROSOL</b>
---

(Cont'd. from page 7)

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> </ul>	UN1950
<ul style="list-style-type: none"> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> </ul>	AEROSOLS, flammable
<ul style="list-style-type: none"> <li>· <b>DOT, IATA</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> </ul>	1950 AEROSOLS AEROSOLS
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>DOT</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>	
 	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2 5F Gases. 2.1
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> </ul>	This UN-number is not assigned a packing group.
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Marine pollutant:</b></li> </ul>	No
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>	Warning: Gases.
<ul style="list-style-type: none"> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> </ul>	- F-D,S-U
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Transport category</b></li> </ul>	2

(Cont'd. on page 9)



## Safety data sheet

according to 830/2015/EC

Printing date: 22.04.2016

Revision: 22.04.2016

**Trade name: Starrett M-1 All Purpose Lubricant Low VOC AEROSOL**

(Cont'd. from page 8)

· **Tunnel restriction code**

D

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Carcinogenic Categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients are listed.
- **Seveso category P3b** FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H280 Contains gas under pressure; may explode if heated.  
 H304 May be fatal if swallowed and enters airways.  
 H350 May cause cancer.

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 Aerosol 2: Flammable aerosols, Hazard Category 2  
 Press. Gas L: Gases under pressure: Liquefied gas  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Carc. 1B: Carcinogenicity, Hazard Category 1B  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2