



## SAFETY DATA SHEET (SDS)

### 1 - IDENTIFICATION

---

#### MOLYFILM HI-TEMP LUBE 4AA

**Chemical family:** Petroleum Hydrocarbon

**Recommended use:** Drawing & Stamping Metalworking

#### Tower Metalworking Fluids

4300 South Tripp Ave.  
Chicago, IL 60632

**Information telephone #:** (773) 927-6161 (7:30 AM to 4 PM, CST, Monday to Friday)

**24 Hr. emergency telephone #:** CHEMTREC: (800) 424-9300

---

### 2 - HAZARDS IDENTIFICATION

**Classification of chemical:**

This material is classified as non-hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

**Signal word:** None required.

**Hazard Pictogram:** None required.

**Hazard statement:** None required.

**Precautionary statement:** None required.

---

### 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

| Chemical name  | CAS # | Concentration |
|--|-------|---------------|
| Ingredients classified as non-hazardous under OSHA regulations (29CFR 1900-1200) (Hazcom 2012) |       |               |

## 4 - FIRST-AID MEASURES

### Description of first aid measures:

**Inhalation:** If overcome by fumes from hot product, move to fresh air. Get medical attention.

**Ingestion:** If small amounts are ingested, first aid measures are not likely to be necessary. If larger amounts are ingested or if symptoms of ingestion occur, give two glasses of water or milk. Do NOT give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs spontaneously, keep head low so that stomach content doesn't get into the lungs, keep airway clear. Get medical attention if you feel unwell.

**Skin:** Wash with warm water and mild soap. Remove contaminated clothing.

**Eye:** Remove contact lenses, if present and easy to do. Hold eyelids open during flushing. Flush with water for 15 minutes or until irritation subsides. If symptoms develop or persist, contact a physician.

### Symptoms and effects, both acute and delayed:

**Acute:** Possible mild skin irritation, possible transient eye irritation.

**Chronic:** Repeated or prolonged skin contact may remove natural oils, resulting in development of dermatitis.

## 5 - FIRE-FIGHTING MEASURES

### Extinguishing media:

**Suitable:** Use water fog or spray, foam, dry chemicals, or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Unsuitable:** Straight streams of water.

**Specific hazards and combustion products:** Products may include and are not limited to oxides of carbon and sulfur upon combustion.

**Special protective equipment and precautions for fire-fighters:** Use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. If a spill has not ignited, use water spray to disperse vapors.

## 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** All persons dealing with the spill should wear appropriate personal protective equipment. Keep others away from spill. Restrict access to area until the spill has been cleaned up. Extinguish all sources of ignition.

**Methods and materials for containment and cleaning up:** Extinguish all sources of ignition. Contain spill and transfer to suitable containers or soak up in absorbent medium. If spill enters sewer, notify proper authorities.

## 7 - HANDLING AND STORAGE

**Precautions for safe handling:** Minimize breathing oil mists. Avoid prolonged or repeated skin contact. Wash thoroughly before meals and at end of work periods. Launder or dry-clean soiled clothing before reuse. Personnel in close vicinity of oil mists above TLV limit should wear approved breathing devices.

**Conditions for safe storage:** Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidants.

**Incompatible materials:** Strong oxidizing agents.

## 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Exposure limits:

| Material | % | ACGIH TWA | CAS # | Control Reference |
|----------|---|-----------|-------|-------------------|
|----------|---|-----------|-------|-------------------|

|          |        |                     |           |          |
|----------|--------|---------------------|-----------|----------|
| Graphite | < 1.0% | 2 mg/m <sup>3</sup> | 7782-42-5 | For dust |
|----------|--------|---------------------|-----------|----------|

**Engineering controls:** Good general ventilation should be used.

**Individual protection measures and personal protective equipment:** Splash goggles, face shield, oil and chemical resistant gloves, impervious apron if needed to avoid prolonged skin contact.

**TLV:** 5mg/m<sup>3</sup> as oil mist in air over an 8 hour daily exposure (ACGIH)

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Dark Gray Liquid  
**Odor:** Mild Petroleum  
**Odor threshold:** Data currently unavailable  
**Product pH:** N/A  
**Freezing point:** Data currently unavailable  
**Boiling point:** Data currently unavailable  
**Flash point:** Typical 215°F (102°C) COC  
**Evaporation rate:** < 0.01 (BA=1)  
**Flammability:** Data currently unavailable  
**Upper/lower flammability limits:** LEL: 0.6% UEL: 7.0%  
**Vapor pressure:** < 0.01 mm Hg @ 25°C  
**Vapor density:** > 5 (Air = 1)  
**Relative density:** 0.87 (Water = 1)  
**Solubility:** Insoluble in water.  
**Partition coefficient (n-octanol/water):** Information not available.  
**Auto-ignition temperature:** Information not available.  
**Decomposition temperature:** Information not available.  
**Viscosity:** Typical 38 SUS @ 100°F

## 10 - STABILITY AND REACTIVITY

**Chemical stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Avoid heat, sparks, open flames and other ignition sources.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Material does not decompose at ambient temperatures. Decomposition products may include and are not limited to oxides of carbon and sulfur upon combustion.

## 11 - TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Inhalation: Yes  
 Ingestion: Yes  
 Skin: Yes  
 Eye: Yes

### Potential Symptoms of exposure:

**Inhalation:** May cause irritation of respiratory tract. Avoid breathing vapors or mist of this product. Prolonged inhalation may be harmful.

**Ingestion:** Do not ingest. Small amounts swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

**Skin:** Minimally toxic under normal use. May be mildly irritating with prolonged and/or repeated skin contact.

**Eye:** Contact with eyes may cause irritation. Injuries not expected under normal use.

**Toxicological data:** No data available.

**NTP, IARC or OSHA carcinogen:** None of the constituents of this product have been identified as possible or proven carcinogens by NTP, IARC, or OSHA.

---

## 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** Data not available.  
**Persistence and degradability:** Not available  
**Bioaccumulative potential:** Data not available.  
**Mobility in soil:** Data not available.  
**Other adverse effects:** None known.

---

## 13 - DISPOSAL CONSIDERATIONS

**Waste disposal method:** Dispose of in accordance with federal, state and local regulations.

---

## 14 - TRANSPORT INFORMATION

**DOT Shipping:** Not regulated by the U.S. Department of Transportation as a hazardous material.

---

## 15 - REGULATORY INFORMATION

**Sara III** (Superfund Amendment and Reauthorization Act of 1986) 40 CFR Part 372 and 40 CFR Part 355

Sections 302, 304 and 40 CFR Part 355 – Extremely Hazardous Substances:

| Component | % | RQ (lbs.) | TPQ (lbs.) | CAS# |
|-----------|---|-----------|------------|------|
| NONE      | – | –         | –          | –    |

Sections 311, 312 and 40 CFR Part 355 – Hazard Categories:

|   |     |                         |     |
|---|-----|-------------------------|-----|
| <b>ACUTE(IMMEDIATE HEALTH HAZARD):</b>  | YES | <b>FIRE HAZARD:</b>     | YES |
| <b>CHRONIC (DELATED HEALTH HAZARD):</b> | NO  | <b>REACTIVE HAZARD:</b> | NO  |
| <b>SUDDEN PRESSURE RELEASE:</b>         | NO  |                         |     |

Sections 313 and 40 CFR Part 372 – Toxic Chemicals:

| Component | % | CAS# |
|-----------|---|------|
| NONE      | – | –    |

**CERCLA** (Comprehensive Environmental Response, Compensation and Liability Act)

Section 102 and 40 CFR Part 302 – Hazardous Substances:

| Component | % | RQ (lbs.) | CAS# |
|-----------|---|-----------|------|
| NONE      | – | –         | –    |

### CLEAN WATER ACT

Under section 311 (b) (4) of this act, contamination of surface waters by petroleum products must be reported immediately to the National Response Center. SECTION 311 (b) (4) DOES APPLY TO MOLYFILM HI-TEMP LUBE 4AA

**TSCA** (Toxic Substances Control Act): All components of this formula are listed in the TSCA inventory.

---

## **16 - OTHER INFORMATION**

**Preparation Date:** May 28, 2015

**Revision Date:** June 12, 2017

---

*The information appearing in this document is based upon data obtained from raw material manufacturers and/or recognized technical sources. While this information is believed to be correct, TOWER METALWORKING FLUIDS makes no representations as to its accuracy or sufficiency, usage, or the hazards connected with the use of this material. Since this product may be applied under conditions unfamiliar to us or beyond our control, we claim no responsibility for the results of its use, and users are responsible for the verification of this information under their own operation conditions to determine whether the product is suitable for their particular purposes, and these users assume all risks of their use, handling, and disposal of the product. This information relates only to the product designated above and does not relate to its use in combination with any other material in any other process.*