SAFETY DATA SHEET (SDS)

1 - IDENTIFICATION

COMPOUND 48

Chemical family: Mineral Oil Mixture

Recommended use: Lubricant and Anti-Seize Compound.

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

OSHA/HCS Status: This material is classified as non-hazardous under OSHA regulations (29 CFR 1910.1200) (Hazcom 2012)
Classification of chemical/mixture: Not Classified

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 if needed.

Ingestion: Do not induce vomiting. If conscious, give 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin: Wash with warm water and mild soap. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

Eye: Remove contact lenses, if present and easy to do. Flush with water for 15 minutes or until irritation subsides. Get medical attention if eye irritation develops or persists.

Symptoms and effects, both acute and delayed:

Acute: None expected from short-term exposure. Possible mild skin and transient eye irritation for people with preexisting disorders and/or allergic tendencies. Low order of oral toxicity.

Chronic: None known.

5 - FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable: Use water fog or spray, foam, dry chemicals, or carbon dioxide (CO_2) to extinguish flames.
Unsuitable: Do not use straight streams of water, as this will spread the fire.

Specific hazards and combustion products: Products may include and are not limited to oxides of carbon 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. Keep container in cool, well-ventilated area.

Incompatible materials: Strong oxidizing agents.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limits: ACGIH (United States). TWA: 5 mg/m³
OSHA (United States). TWA: 5 mg/m³

Engineering controls: Good general ventilation should be used.

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

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

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous Pale Yellow Liquid
Odor:	Mild
Odor threshold:	Data currently unavailable
Product pH:	N/A
Freezing point:	Data currently unavailable
Boiling point:	Data currently unavailable
Flash point:	Typical >275ºF (135ºC) PMCC
Evaporation rate:	Data currently unavailable
Flammability:	Data currently unavailable
Upper/lower flammability limits:	Data currently unavailable
Vapor pressure:	Data currently unavailable
Vapor density:	Data currently unavailable
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 69,000 SUS @ 100ºF
Percent volatile by volume:	Negligible

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 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:	Not determined.
Skin:	Minimally toxic under normal use. May be mildly irritating with prolonged and/or repeated skin contact.
Eye:	Direct Contact with eyes may cause transient 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: Not considered dangerous for the environment according to EC criteria. Based on calculation.

Persistence and degradability: This product contains components which may be persistent in the environment.

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.
DOT Hazard class: Not Regulated.
UN/NA Number: Not Regulated.

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:

ACCUTE(IMMEDIATE HEALTH HAZARD):	NO	**FIRE HAZARD:**	YES
CHRONIC (DELATED HEALTH HAZARD):	NO	**REACTIVE HAZARD:**	NO
SUDDEN PRESSURE RELEASE:	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 COMPOUND 48

California Proposition 65: None of the ingredients are listed.

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

16 - OTHER INFORMATION

Preparation Date: May 11, 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.