



SAFETY DATA SHEET (SDS)

1 - IDENTIFICATION

SAF-T-COOL 488

Chemical family: Metalworking Emulsion.

Recommended use: Metalworking Machining Coolant.

Tower Oil & Technology Co.

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, if needed.

Ingestion: Do not induce vomiting. Get medical attention.

Skin: Wash with warm water and mild soap. Remove contaminated clothing. Launder or dry-clean soiled 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.

Symptoms and effects, both acute and delayed:

Acute: May cause transient eye and mild skin irritation.

Chronic: Prolonged or repeated skin contact may tend to remove natural oils, resulting in the development of dermatitis.

5 - FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable: Non-flammable. If water is heated off, use water spray (fog) or foam, carbon dioxide, dry-chemical or universal type foam 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 and nitrogen when water content has evaporated and residue is exposed to combustion.

Special protective equipment and precautions for fire-fighters: This product is not expected to burn until all the water is boiled/evaporated, the remaining organics may be ignitable and should be treated as an oil fire. If near fire, cool exposed containers with cold water to prevent rupture. Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

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.

Methods and materials for containment and cleaning up: Contain spill and transfer to suitable containers or soak up in absorbent medium. Avoid release into waterways. If spill enters sewer, notify proper authorities.

7 - HANDLING AND STORAGE

Precautions for safe handling: Wear proper personal protective equipment. Minimize breathing oil mists. Avoid prolonged or repeated contact with skin, eyes and clothing. Wash thoroughly after handling, before meals, and at end of work periods. Launder or dry-clean soiled clothing before reuse.

Conditions for safe storage: Keep containers closed when not in use. Protect from freezing temperatures. Avoid heating above 120°F for prolonged periods of time. Do not store or handle near strong oxidants. Empty containers may retain product residue; all precautions apply to empty containers.

Incompatible materials: Strong oxidizing materials.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limits: No exposure standards have been established for this material.

Engineering controls: None required under normal use conditions. Use proper ventilation to control airborne (mist) levels.

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

TLV(for total product): 5mg/m³ as oil mist in air over an 8 hour daily exposure (ACGIH)

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber Liquid
Odor: Mild
Odor threshold: Data currently unavailable
Product pH: 8.9 – 9.7
Freezing point: 32°F
Boiling point: 212°F
Flash point: Typical 335°F (168°C), when heated beyond evaporation of contained moisture.
Evaporation rate: Information not available
Flammability: Non-flammable
Upper/lower flammability limits: Information not available
Vapor pressure: Information not available
Vapor density: >1 (Air = 1)
Relative density: 0.97 (Water = 1)
Solubility: Emulsifies in water
Partition coefficient (n-octanol/water): Information not available
Auto-ignition temperature: Information not available
Decomposition temperature: Information not available
Viscosity: Information not available
VOC: 0.0 gm/L [EPA Method 24]

10 - STABILITY AND REACTIVITY

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Strong oxidizing agents.

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 nitrogen when water content has evaporated and residue is exposed to 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 respiratory tract irritation.
Ingestion: Small amounts (tablespoonful) swallowed are not likely to cause injury. Larger amounts may cause nausea and vomiting.
Skin: Possible mild irritation.
Eye: Direct 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: Data 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. As originally offered, this product is not considered a hazardous waste by RCRA standards. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

14 - TRANSPORT INFORMATION

LAND: Department of Transportation (DOT)
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.

AIR: International Air Transport Association (IATA)
 Not regulated.

SEA: International Maritime organization (IMO)
 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:

ACUTE(IMMEDIATE HEALTH HAZARD):	YES	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 NOT APPLY TO SAF-T-COOL 488

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.

INTERNATIONAL

Canadian Environmental Protection Act (CEPA)

All components are listed in the Domestic Substance list, are exempt, or have been reported in accordance with the New Substances Notification Regulations.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (DPR) and the SDS contains all the information required by the CPR.

WHMIS CLASSIFICATION:

Not considered a WHMIS controlled product.

NATIONAL POLLUTANT RELEASE INVENTORY (NPRI)

This product does not contain any substances listed in Schedule I of the NPRI at a concentration of one percent or more by weight.

16 - OTHER INFORMATION

Preparation Date: December 31, 2014

Revision Date: June 1, 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 OIL & TECHNOLOGY 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.
