



SAFETY DATA SHEET (SDS)

1 - IDENTIFICATION

TOWERKLENE 50-S

Chemical family: Alkaline Cleaner

Recommended use: Cleaner/ Rust Prevention

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 hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Signal word: WARNING

Hazard Pictogram:



Hazard statement:

H317 May causes an allergic skin reaction.

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

Precautionary statement:**Prevention**

P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product.
P280 Wear chemical resistant gloves, goggles and face shield.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of water and mild soap.
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal

P501 Dispose of contents/containers in accordance with federal, state and local regulations.

3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	4719-04-4	5 – 10%
Tetrasodium ethylenediaminetetraacetate	64-02-8	1 – 5%

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: 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. Immediately flush with water for 15 minutes or until irritation subsides. Get medical attention.

Symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

5 - FIRE-FIGHTING MEASURES**Extinguishing media:**

Suitable: Foam, carbon dioxide, dry chemicals, water fog or spray.

Unsuitable: None.

Specific hazards and combustion products: Thermal decomposition products may include and are not limited to oxides of carbon, and nitrogen. If near fire, cool exposed containers with cold water to prevent rupture.

Special protective equipment and precautions for fire-fighters: If near fire, cool exposed containers with cold water to prevent rupture.

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. If spill enters sewer, notify proper authorities.

7 - HANDLING AND STORAGE

Precautions for safe handling: Wear proper personal protective equipment. Minimize breathing hot vapors. Avoid prolonged or repeated contact with skin, eyes and clothing. Wash thoroughly 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 ignition sources or strong oxidants. Empty containers may retain product residue; all precautions apply to empty containers.

Incompatible materials: Strong acids and acid cleaning compounds.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

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

Engineering controls: Good general ventilation should be used.

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.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber Liquid
Odor:	Mild
Odor threshold:	Data currently unavailable
Product pH:	10.2
Freezing point:	32°F
Boiling point:	>200°F
Flash point:	Non-flammable
Evaporation rate:	Information not available
Flammability:	Information not available
Upper/lower flammability limits:	Information not available
Vapor pressure:	<0.01 mm Hg
Vapor density:	>1 (Air = 1)
Relative density:	1.05 (Water = 1)
Solubility:	Soluble in water
Partition coefficient (n-octanol/water):	Information not available
Auto-ignition temperature:	Information not available
Decomposition temperature:	Information not available
Viscosity: I	As water

10 - STABILITY AND REACTIVITY

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Excessive heat.

Incompatible materials: Acids and acid cleaning compounds.

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

11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

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

Potential Symptoms of exposure:

Inhalation: No specific data.
Ingestion: Do not ingest. Harmful if swallowed.
Skin: May cause irritation or redness with prolonged and/or repeated skin contact.
Eye: Direct contact with eyes may cause serious irritation.

Toxicological data: Data not 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.

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 Re-authorization 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 APPLY TO TOWERKLENE 50-S

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: Seotenber 6, 2018

Revision Date: September 6, 2018

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.