



SAFETY DATA SHEET (SDS)

1 - IDENTIFICATION

TOWERKLENE 43-AFC

Chemical family: Alkaline Cleaner

Recommended use: Cleaner

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: DANGER

Hazard Pictogram:



Hazard statement:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary statement:

P264	Wash contact area thoroughly after handling.
P280	Wear chemical resistant gloves, goggles and face shield.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN(or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/ containers in accordance with federal, state and local regulations.

3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration
Sodium metasilicate	6434-92-0	1.0 – 2.0%

4 - FIRST-AID MEASURES**Description of first aid measures:**

Inhalation: Remove to fresh air, if breathing has stopped apply artificial respiration. Seek immediate medical attention.

Ingestion: Do not induce vomiting. If conscious give large amounts of water. Get immediate medical attention.

Skin: Remove contaminated clothing and wash affected area(s) with plenty of soap and water for several minutes. Continue washing with large amounts of water for a maximum of 15-20 minutes. Contact a physician immediately.

Eye: Remove contact lenses, if present and easy to do. Flush with water for 15 minutes or until irritation subsides. Seek immediate medical attention. If physician is not immediately available, apply one or two drops of pontocain hydrochloride solution, followed by a second flushing of water for 15 minutes.

Symptoms and effects, both acute and delayed:

Acute: May cause severe burns when in contact with skin or eyes. Vapors, mists and liquids are extremely corrosive to the eyes and dermal tissue. Inhalation may result in severe irritation and lung tissue damage.

Chronic: Repeated overexposure may cause lesions on skin, damage to liver and kidneys, lungs and red blood cells. Harmful amounts of cellosolve component may be absorbed by repeated skin contact.

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

Suitable: Non-flammable.

Unsuitable: None.

Specific hazards and combustion products: Thermal decomposition can liberate fumes of nitrogen and phosphorus oxides. If near fire, cool exposed containers with cold water to prevent rupture.

Special protective equipment and precautions for fire-fighters: Exposure to high temperatures may cause drums to bulge and rupture. In case of fire, keep drums cooled with water.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: All persons dealing with the spill should wear complete personal protective equipment. When near a spill, wear acid resistant slicker suit.. Keep others away from spill. Restrict access to area until the spill has been cleaned up.

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Methods and materials for containment and cleaning up: Contain spill with soil or other non-combustible absorbent medium. Prevent entry into sewers and waterways. Avoid contact with eyes and clothing. Disposal procedure must be in accordance with local, state & federal regulations.

7 - HANDLING AND STORAGE

Precautions for safe handling: Wear proper personal protective equipment. Use impervious gloves (rubber, nitrile or neoprene). Wear safety glasses, chemical splash goggles. 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 oxidizing materials.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limits:

Material	ACGIH TLV	OSHA PEL	CAS #
Butyl Cellosolve	25 PPM 121 mg/m ³	50 ppm 240 mg/m ³	111-76-2

Engineering controls: None required under normal use conditions.

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

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid
Odor: Citrus
Odor threshold: Data currently unavailable
Product pH: 12.0 Typical.
Freezing point: 32°F
Boiling point: 212°F
Flash point: None
Evaporation rate: <1 (BA=1)
Flammability: Non-flammable.
Upper/lower flammability limits: Information not available.
Vapor pressure: Data currently unavailable.
Vapor density: >1 (Air = 1)
Relative density: 1.05 (Water = 1)
Solubility: Soluble in water and alcohols.
Partition coefficient (n-octanol/water): Information not available.
Auto-ignition temperature: Information not available.
Decomposition temperature: Information not available.
Viscosity: 1 (cSt @ 25°C)
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: Heat or steam.

Incompatible materials: Acids and acid cleaning compounds.

Hazardous decomposition products: Thermal decomposition can liberate fumes of nitrogen and phosphorus oxides.

11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: Information not available

Ingestion: Information not available

Skin: Information not available

Eye: Information not available

Potential Symptoms of exposure:

Inhalation: Not determined.

Ingestion: Not determined.

Skin: May cause severe burns when in contact with the Skin

Eye: May cause severe burns when in contact with the Eyes.

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: Due to this product's high pH when undiluted or unneutralized it is considered to be acutely harmful to aquatic life.

Persistence and degradability: Not determined.

Bioaccumulative potential: Has the potential to bioaccumulate.

Mobility in soil: Not determined.

Other adverse effects: None Known.

13 - DISPOSAL CONSIDERATIONS

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

14 - TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101:

Proper Shipping Name: Corrosive Liquid, N.O.S.

UN Number: UN1760

Hazard Class/Division: 8

Packing Group: III

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):	YES	FIRE HAZARD:	NO
CHRONIC (DELATED HEALTH HAZARD):	YES	REACTIVE HAZARD:	NO
SUDDEN PRESSURE RELEASE:	NO		

Sections 313 and 40 CFR Part 372 – Toxic Chemicals:

Component	%	CAS#
Butyl Cellosolve	<7	111-76-2

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

Section 102 and 40 CFR Part 302 – Hazardous Substances:

Component	%	RQ (lbs.)	CAS#
Potassium hydroxide	<1	1,000	1310-58-3

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 43-AFC

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: February 19, 2015

Revision Date: June 13, 2017

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