



SAFETY DATA SHEET (SDS)

1 - IDENTIFICATION

KLENEDRAW W-4177

Chemical family: Water soluble organic soaps

Recommended use: Drawing & Stamping Metalworking

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: N/A

Ingestion: Do not induce vomiting. Get medical attention.

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

Eye: Remove contact lenses, if present and easy to do. Flush with water for 15 minutes or until irritation subsides.

Symptoms and effects, both acute and delayed:

Acute: Possible skin and eye 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, carbon dioxide, dry-chemical or universal type foam.

Unsuitable: None

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: Use Carbon Dioxide Extinguisher (suitable for class B and C fires) or Multi-Purpose Dry Chemical Extinguisher (suitable for class A, B and C fires). 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. If spill enters sewer, notify proper authorities.

7 - HANDLING AND STORAGE

Precautions for safe handling: Wear proper personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly before meals and at end of work periods.

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.

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.

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: Clear gold liquid.
Odor: Mild soap
Odor threshold: Data currently unavailable
Product pH: 8.8 – 9.5
Freezing point: 32°F
Boiling point: 212°F
Flash point: None
Evaporation rate: As water.
Flammability: Non-flammable
Upper/lower flammability limits: Information not available.
Vapor pressure: < 0.01 mm Hg @ 25°C
Vapor density: Information not available
Relative density: 1.03 (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: Typical 900 SUS @ 100°F
Percent volatile by volume: Contains no VOC's

10 - STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does 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: No
Ingestion: Yes
Skin: Yes
Eye: Yes

Potential symptoms of exposure:

Inhalation: No information available.
Ingestion: No information available.
Skin: Not expected to cause serious irritation.
Eye: Not expected to cause serious irritation.

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.

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:

ACUTE (IMMEDIATE HEALTH HAZARD):	YES	FIRE HAZARD:	NO
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 KLENEDRAW W-4177

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: June 12, 2014

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