

MATERIAL SAFETY DATA SHEET

TOWER OIL & TECHNOLOGY COMPANY
4300 SOUTH TRIPP AVENUE
CHICAGO, ILLINOIS 60632

PRODUCT NAME: TOWERCOOL 462-G
CHEMICAL FAMILY: AQUEOUS MICROEMULSION
MSDS NUMBER: 1410
REVISION DATE: June 16, 2009
INFORMATION PHONE: 1-773-927-6161
EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

HMIS/NFPA HAZARD	
HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0

I. PHYSICAL DATA

BOILING POINT: N/A
VAPOR PRESSURE: 5 mm Hg
SOLUBILITY IN WATER: Emulsifies
EVAPORATION RATE: <1 (BA = 1)
SPECIFIC GRAVITY: 1.00 (WATER = 1)
PERCENT VOLATILE BY VOLUME: CONTAINS NO VOC's
APPEARANCE: Blue-Green Liquid
ODOR: Mild amine
VISCOSITY: N/D
VAPOR DENSITY: <0.01 (AIR = 1)

II. HAZARDOUS INGREDIENTS

MATERIAL	%	ACGIH TLV	OSHA PEL	CAS #
NONE	-	-	-	-

III. FIRE AND EXPLOSION DATA

FLASH POINT: Typical >200°F COC, when all water has been vaporized.

FLAMMABLE LIMITS - LOWER: N/D UPPER: N/D

EXTINGUISHING MEDIA:
Water spray, foam, dry chemicals, carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES:
Use cold water to cool containers and prevent rupture. If a spill has not ignited, use water spray to disperse vapors. Minimize breathing fumes. Employ supplied-air breathing equipment in confined areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Treat as oil fire.

IV. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:
Oxides of carbon and phosphorus upon combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

V. HEALTH HAZARD DATA

TLV (THRESHOLD LIMIT VALUE): 5mg/m3 as oil mist in air.

CARCINOGENICITY:
None of the constituents of this product have been identified as possible or proven carcinogens by NTP, IARC, or OSHA.

-EFFECTS OF OVEREXPOSURE-

ACUTE:
Possible skin and transient eye irritation,

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

-EMERGENCY FIRST AID PROCEDURES-

INHALATION: N/A

INGESTION: Do not induce vomiting. Get medical attention.

EYE CONTACT: Flush with water for 15 minutes or until irritation subsides.

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

VI. SPILL AND LEAK PROCEDURES

IF MATERIAL IS RELEASED OR SPILLED:
Recover spilled fluid and transfer to suitable containers or soak up in absorbent medium. If spill enters sewer, notify Authorities.

WASTE DISPOSAL:
Disposal procedure must be in accordance with LOCAL, STATE & FEDERAL REGULATIONS.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not normally required.

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT:

Impermeable apron if skin contact is likely to be prolonged or repeated,

-VENTILATION-

LOCAL EXHAUST: N/A
MECHANICAL (GENERAL): N/A

SPECIAL: N/A
OTHER: N/A

VIII. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep containers closed when not in use. Avoid freezing temperatures. Personnel in close vicinity of misted product above TLV should wear approved breathing devices.

PERSONAL HYGIENE - Avoid prolonged or repeated skin contact. Wash thoroughly before meals and at end of work periods. Launder or dry-clean soiled clothing before reuse.

IX. ENVIRONMENTAL REGULATIONS/FEDERAL EPA

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 (DELAYED HEALTH HAZARD):	NO		REACTIVE HAZARD:	NO
SUDDEN PRESSURE RELEASE:	NO			

Section 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 TOWERCOOL 462-G.

X. STATE RIGHT-TO-KNOW

TSCA (Toxic Substances Control Act) Status

All components of this formula are included in the TSCA inventory.

HMIS/NFPA HAZARD: 4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT 0 = MINIMAL

N/D = NOT DETERMINED N/A = NOT APPLICABLE < = LESS THAN > = GREATER THAN

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TOWER OIL & TECHNOLOGY CO.

June 16, 2009