

MATERIAL SAFETY DATA SHEET

REVISED: 08-14-11
CURRENT AS OF: 08-14-11

MSI, INC.

Moulder Services
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Troutman, NC 28166
704 528 3539

FOR ADDITIONAL PRODUCT
INFORMATION, CALL.
704 528 3539

SECTION #1 - IDENTIFICATION

PRODUCT NAME: **TC-COOLANT**

HAZARD RATING

PRODUCT USE: Metalworking grinding fluid

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

SECTION #2 - HAZARDOUS COMPONENTS

COMPONENT:	CAS NO:	PERCENT:	ACGIH TLV:	OSHA PEL:
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None

NOTE: OSHA requires only that hazardous components be listed in this section.

SECTION #3 - PHYSICAL DATA

APPEARANCE: Clear liquid

% VOLATILES BY VOL: 0

BOILING POINT: >212 Deg F

VOC Compliant with SCAQMD

VAPOR DENSITY: >1

SOLUBILITY IN WATER: Complete

VAPOR PRESSURE: Unknown

SPECIFIC GRAVITY: 1.01

pH: 9.3 (neat)

ODOR: Mild

COLOR: Yellow

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SECTION #4 - FIRE AND EXPLOSION DATA

FLASHPOINT (PMCC): None

AUTOIGNITION: Unknown

LEL: Unknown

UEL: Unknown

EXTINGUISHING MEDIA: Use water spray, dry chemical, foam or CO₂

FIRE AND EXPLOSION HAZARDS: Emits hazardous decomposition products, CO, CO₂ and NO₂.

SPECIAL FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus.

SECTION #5 - EXPOSURE & EFFECT

ROUTES AND EFFECTS OF EXPOSURE:

SKIN CONTACT: Under normal use conditions irritation is not expected, however in certain individuals irritation may result.

EYE CONTACT: Excessive exposure may cause eye irritation.

INGESTION: Not considered a normal route of entry but may cause nausea.

INHALATION: In poorly ventilated areas or confined spaces, inhalation may cause irritation of the nose and throat.

EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Remove contaminated clothing and flood skin with water for at least 15 minutes, then wash gently with mild soap and water. Do not put on clothing again until all chemicals have been thoroughly washed from them. Shoes and gloves soaked with chemicals should be discarded. Call a physician if pain, irritation or other symptoms persist.

EYES: Flush immediately with large amounts of water for at least 15 minutes. Consult a physician if pain, irritation or other problems persist.

INGESTION: Unless the patient is unconscious, having convulsions or cannot swallow, give water immediately. Do not make the patient vomit. Get medical attention.

INHALATION: Remove the person to fresh air. If irritation persists, call a physician.

SECTION #6 - REACTIVITY & POLYMERIZATION

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Storage in direct sunlight

INCOMPATIBLE MATERIALS: Strong oxidizers, magnesium after diluted

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂ and oxides of nitrogen.

CONDITIONS TO AVOID (POLYMERIZATION): None

HAZARDOUS POLYMERIZATION: Will not occur

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SECTION #7 - SPILL, LEAK & DISPOSAL PROCEDURES

Wear protective clothing. Contain with oil-binding materials. Dispose of in waste management facility or in compliance with federal, state and local regulations. If spill is not contaminated, you may be able to dispose of it where normally used.

Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. The toll-free number is 800/8802. Prevent spills from entering storm sewers or drains and any contact with soil.

SECTION #8 - SPECIAL PROTECTIVE MEASURES

VENTILATION: Normal room ventilation.

SKIN PROTECTION: None required for normal use, however nitrile gloves may be used if needed.

EYE PROTECTION: Safety glasses.

OTHER: Plastic or rubber apron suggested.

RESPIRATORY PROTECTION: Inhalation of concentrated product is not expected to be a route of exposure. Inhalation of diluted mix can occur in applications where high mist levels are generated. Under these conditions, respiratory protection may be necessary.

WORK/HYGIENIC PRACTICES: Have eyewash and safety shower, ANSI Z358.1-1990 certified, in work area. Remove contaminated clothing. Wash contaminated clothing before reuse. If liquid is absorbed into shoes or gloves, discard. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially when eating, drinking, smoking, using the restroom or applying cosmetics.

SECTION #9 - STORAGE & HANDLING INFORMATION

STORAGE AND HANDLING CONDITIONS: Keep container covered and sealed when not in use. Store in a cool, dry area. Do not add water or any other material to drum of product or otherwise contaminate it. Wash thoroughly after handling.

SECTION #10 - TRANSPORTATION INFORMATION

DOT SHIPPING NAME: Not applicable, not regulated

DOT HAZARD CLASS: N/A

UN/NA#: N/A

DOT LABEL REQUIRED: N/A

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SECTION #11 - REGULATORY INFORMATION

The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations. Trade secrets are indicated by "TS".

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III requires emergency planning based upon Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40 CFR 355 (used for SARA 302, 304, 311, AND 312).

Components present in this product at the level which would require reporting under the statute are:

<u>Substance</u>	<u>CAS No.</u>	<u>RQ</u>	<u>TPQ</u>	<u>Percent</u>
None				

SARA 311/312: Sara hazard class: None

SARA Title III - Section 313 Supplier Notification:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 and of 40 CFR 372:

<u>SUBSTANCE</u>	<u>CAS NO.</u>	<u>PERCENT IN MIXTURE</u>
None		

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4.

Components present in this product at the level which would require reporting under the statute are:

<u>SUBSTANCE</u>	<u>CAS NO.</u>	<u>RQ</u>	<u>PERCENT</u>
None			

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