

TRU-BLUE

DATE EFFECTIVE: 9/93
MSDS 15-00-500 Rev 10/93



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name (s): TRU - BLUE CUTTING FLUID

JANCY ENGINEERING CO.
"HOME OF THE SLUGGER"

2735 Hickory Grove Rd.
DAVENPORT, IA 52804

PH. 319-391-1300 / FX. 319-391-2323

Roto-
MAGIC

Emergency
Telephone Number:
CHEMTREC
1-800-424-9300

Information
Telephone Number
Safety Manager:
1-313-589-1000

Generic Name: Water-based metalworking fluid concentrate

2. EMERGENCY OVERVIEW

Product is a clear liquid which may be dyed.
Product is alkaline, a primary eye irritant and may be
a primary skin irritant. Highway spills in rainy
weather could result in slippery road conditions.

No other significant health effects are associated
with this material.

3. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS Number	Max %	These ingredients may contribute to the acute product hazards listed under the Potential Health Effects section. Other substances, not "Hazardous" under the OSHA Hazard Communication Standard may be present. Further composition information may be made available to health professionals as provided in the standard.
Mineral oil	64742-52-5	20	
Triethanolamine	102-71-6	10	
Ethanolamine	141-43-5	10	
Trade secret raw material irritating to the eyes		10	

4. HAZARDS IDENTIFICATION

Potential Health Effects of Direct Exposure

	Product Concentrate	Product at Use Dilution
Inhalation	Not Applicable	Extended Exposure to mists may cause upper respiratory irritation
Eye Contact	Primary eye irritant	Will cause stinging sensation in the eye.
Skin Contact	May be a primary skin irritant	Not irritating to the skin when used as directed and good personal hygiene is practiced.
Ingestion	Not orally toxic	Swallowing small quantities may cause nausea or diarrhea.

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HAZARDS IDENTIFICATION (cont.)

When used in applications generating high levels of mist, operator exposure can be minimized by proper ventilation, use of mist collectors or splash guards, as appropriate. If there is doubt about actual mist levels present, monitoring should be conducted.

Mild skin irritation (redness and dryness of hands) may be experienced when the diluted product has been contaminated by certain oils, by dissolved metals or when mix ratio is too strong. When problems occur, use of water-resistant barrier creams may be a temporary control measure.

Carcinogen Listings:

NTP: No IARC: No OSHA: No

Signs and symptoms of exposure: Eye injury may result from contact with concentrated product. Skin irritation can result from improper use and handling of concentrate or mix.

Medical conditions generally aggravated by exposure: May aggravate existing skin irritation where further defatting or skin penetration could occur.

5. EMERGENCY AND FIRST AID PROCEDURES

Eyes - In case of eye contact with concentrated product or diluted mix, flush immediately with running water for 15 minutes, then promptly get medical attention to check for possible irritation.

Skin contact - In case of skin contact with product concentrate, wash with water as soon as possible. Diluted product is not irritating to the skin when used as recommended and good personal hygiene is practiced. Remove severely contaminated clothing, including shoes. Launder before reuse. If irritation persists, get medical attention.

Ingestion - If concentrate or mix is swallowed, do not induce vomiting. Dilute by drinking water or milk. Immediately contact physician and obtain treatment.

Swallowing small quantities of diluted product is not expected to cause injury or illness; but, as should be expected when drinking oily, soapy water, nausea, diarrhea or abdominal distress may be experienced.

Inhalation - Not expected to be a probable route of exposure to product concentrate.

Inhalation of diluted mix can occur in applications where high mist levels are generated. OSHA has set a PEL of 15 mg/M³ for any airborne particulate as a nuisance level of exposure.

6. FIRE AND EXPLOSION HAZARD DATA

Flash Point (COC).....NA
Flammable Limits.....NA
Lower Explosive Limit.....NA
Upper Explosive Limit.....NA
Extinguishing Media.....NA
Special Firefighting Procedures..... None
Unusual Fire and Explosion Hazards.....None
Hazardous Combustion Products...Smoke, fumes and oxides of carbon

NFPA/HMIS Codes
Health.....1
Flammability.....0
Reactivity.....0
Other.....NA

7. ACCIDENTAL RELEASE MEASURES

Contain the spill, collect on absorbent material and discard as dictated by Federal, state and local regulations that may apply. Flush area thoroughly with water.

Reportable Quantity.....None

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8. WASTE DISPOSAL

For Used Mix: Disposal procedures must comply with local, county, state and Federal regulations. If pre-treatment is needed, chemical emulsion breaking or ultrafiltration may be used.

For Unused Concentrate: Concentrate is not a hazardous waste, as defined under 40 CFR 261.

"Empty" Containers will contain a residue which is not considered a hazardous waste under RCRA regulations. Drums can be drained to a "drip-dry" condition by inversion and can be offered for recycling or scrap.

9. HANDLING AND STORAGE

Use only as recommended by
Avoid all contact of concentrate with eyes or skin. Do not swallow. If frozen, thaw completely at room temperature.

Other Precautions - Contains amines. Do not add sodium nitrite or other nitrosating agents to this product: Suspected cancer-causing nitrosamines could be formed.

10. CONTROL MEASURES

Respiratory Protection - Product is not volatile.
Ventilation - For most applications, normal shop ventilation is adequate. However, when high mist levels are generated or where machines are close together or ventilation is inadequate, operators may experience respiratory irritation. For such applications, use of splash guards or mist collectors is recommended.
Protective Gloves - Impervious gloves are required when handling product concentrate.

Eye Protection - Safety shield or goggles required when handling concentrated product.

Other protective clothing or equipment - Effective metalworking plant protective clothing as appropriate.

Work/Hygiene Practices - Good personal hygiene should always be followed.

11. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point.....	212° F	Evaporation Rate.....	Like water
Specific Gravity.....	1.031	Solubility in Water.....	Complete
Vapor Pressure (mm Hg).....	Like water	Appearance/Odor.....	Clear/pleasant
Melting Point.....	NA	pH (concentrate).....	9.1
Vapor Density.....	NA	pH (5% mix).....	8.9

12. REACTIVITY

Stability..... Stable
Conditions to Avoid..... NA
Materials to Avoid..... Avoid addition of strong acids to product concentrate.

Hazardous Polymerization..... Will not occur
Combustion Products..... Smoke, fumes, oxides of carbon.

13. TRANSPORT INFORMATION

DOT Proper Shipping Name..... NA **DOT Hazard Classification.....** NA
ID Number..... NA

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14. REGULATORY INFORMATION

Exposure Guidelines Regulated Material	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
Mineral oil (mist)	5 mg/M ³	----	5 mg/M ³	----
Ethanolamine	3 ppm	----	3 ppm	6 ppm

CERCLA

Components present in this product at a level which could require reporting under 40 CFR 302.4.....None

SARA TITLE III

Extremely Hazardous Substances (302).....NA

Hazardous Substances (311, 312):

Product concentrate is a hazardous substance as defined under the OSHA Hazard Communication Standard and may be reportable under the provisions of SARA Sections 311 and 312.

SARA Hazard Categories

Acute Health.....Yes
 Chronic Health.....No
 Fire.....No
 Sudden Release of Pressure.....No
 Reactive.....No

RCRA

Product concentrate does not meet the definition of a hazardous waste as defined under 40 CFR 261. It is possible that in use, the mix may be contaminated by metals or by chlorinated solvents and the final waste may meet the TCLP definition. Each facility should assess each waste stream to determine if the used fluid should be treated as a hazardous waste.

TSCA - The ingredients of this product are on the TSCA inventory..

State Right-to-Know

Many states have enacted Community Right-To-Know laws which require information beyond that mandated by federal laws. Since some of these laws are inconsistent with the federal laws, the information in this sheet may not fully meet the requirements of every state.

California SCAQMD Rule 443.1 VOC's..... NA

Toxic Substances (313): Components present in the product at levels which could require reporting under the statute:

<u>Chemical Name</u>	<u>CAS #</u>	<u>Max %</u>
Glycol ethers	NA	1

GLOSSARY OF ABBREVIATIONS

<p>ACGIH American Conference of Governmental Industrial Hygienists CAS Chemical Abstracts Service CERCLA Comprehensive Environmental Response Compensation and Liability Act CFR Code of Federal Regulations COC Cleveland Open Cap DOT Department of Transportation IARC International Agency for Research on Cancer NA Not Applicable NTP National Toxicology Program</p>	<p>OSHA Occupational Safety and Health Administration PEL Permissible Exposure Limit RCRA Resource Conservation and Recovery Act SARA Superfund Amendments and Reauthorization Act SCAQMD Southern California Air Quality Monitoring District STEL Short-Term Exposure Limit TCLP Toxicity Characteristics Leaching Procedure TLV Threshold Limit Value TSCA Toxic Substance Control Act VOC Volatile Organic Chemicals</p>
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