



TRIM[®] C270

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : TRIM[®] C270
Material Type : Water miscible cutting and grinding fluid concentrate
Classification / synonym(s) : Chemical emulsion / Synthetic fluid
Product use : Coolant and lubricant in metal removal process
Manufacturer address : MASTER CHEMICAL CORPORATION
501 West Boundary, Perrysburg, OH 43551-1263

2. COMPOSITION/ INFORMATION ON INGREDIENTS

| Component | OSHA PEL | ACGIH TLV | Other Limits Recomended. | CAS # | %Range |
|------------------------------|-------------|--------------|--------------------------------|------------|--------|
| Triethanolamine | none | 5mg/m3 | none | 102-71-6 | 10-20 |
| Carboxylic acid | none | none | none | 68990-374 | 1-10 |
| Alkanolamine | none | none | none | 63231-48-1 | 1-10 |
| Polyalkylene glycol | none | none | none | 9003-11-6 | 1-10 |
| Amine salt | none | none | none | 63231-48-1 | 1-10 |
| Borate | none | none | none | 10043-35-3 | 1-10 |
| Substituted amide derivative | none | none | none | 63231-48-1 | 1-10 |

The exact chemical identities and percentages of the raw materials used in Trim[®] C270 are trade secrets. This information is been withheld as provided for in the Occupational Safety and Health Administration's Hazard Communication Rule (29 CFR 1910.1200).

3. HAZARDOUS IDENTIFICATION

Emergency Overview : Pale yellow liquid
No immediate hazard
Fire may produce CO, CO₂, NO_x

Potential Health Effects

Acute Effects of : Eye Contact Transient irritation
Overexposure : Skin Contact Possible defatting, nonirritant, nonsensitizer
Expected to be : Inhalation Nontoxic
Ingestion Nontoxic
Skin absorption Nontoxic

Chronic effects of overexposure : None currently known

Product/ Ingredients listed as : NTP Annual Report No IARC Monographs No
Carcinogen or potential carcinogen? : OSHA No

Signs & Symptoms of exposure : None

Medical conditions generally : None Known
Aggravated by exposure

4. FIRST AID MEASURES

Emergency and First Aid Procedures

| | | |
|------------|---|---|
| Eyes | : | Flush immediately with cool, clean water for at least 15 minutes. |
| Skin | : | Wash with mild soap and warm water |
| Inhalation | : | Remove to fresh air |
| Ingestion | : | If large quantities are ingested, contact a physician |

In every case get medical attention as required.

5. FIRE FIGHTING MEASURES

| | | |
|----------------------------------|---|---|
| Flash point (test method) | : | >212°F (<100°C) (COC) |
| Flammable Limits | : | Not determined |
| Extinguished Media | : | As appropriate for the surrounding fire: Water (flood with water), Dry chemical, CO ₂ or "alcohol" foam |
| Special fire fighting procedures | : | None |
| Unusual fire and explosion | : | None Hazards |

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled : Mop up or use Dry absorbent

7. HANDLING AND STORAGE

Precautions to be taken in handling and storing : Avoid contact with eyes. Avoid prolonged or repeated skin contact with the concentrate Wash thoroughly after handling. Do not swallow. Refer to data and information sheet or container labels.

Other Precautions : This product contains amine. Do not add nitrite or other nitrosating agents to this product due to the potential for nitrosamine formation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | | |
|---------------------------------------|---|---|
| Respiratory protection (specify type) | : | None |
| Ventilation | : | Local exhaust : Not normally required Mechanical (General) : General room ventilation should be sufficient Special : None Other : None |
| Protective Gloves | : | None |
| Other protective equipment | : | None |
| Eye Protection | : | Safety Glasses |
| Exposure limits | : | None established by ACGIH or OSHA for product as whole Refer to section 2 |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | | | |
|---------------------------------|---|--------------------|--------------------------------------|---|----------------|
| Appearance | : | Pale yellow liquid | Odor | : | Mild Odor |
| Typical operating pH as arrange | : | 8.7-9.2 | PH of concentrate | : | 9.3 |
| Vapor pressure (psi) | : | <1 | Vapor Density (Air=1) | : | Not determined |
| Boiling point(@ 760mm Hg) | : | 208°F (98°C) | Freezing point | : | Not applicable |
| Solubility in water | : | 100% | Specific Gravity(H ₂ O=1) | : | 1.05 |
| Percent volatile by volume | : | 77.8% | Evaporation rate (butyl acetate =1) | : | <1 |

10. STABILITY AND REACTIVITY

| | | |
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| Stability | : | Stable |
| Conditions to avoid | : | None |
| Incompatibility (materials to avoid) | : | Strong oxidizers and acids |
| Hazardous combustion or decomposition products | : | Thermal decomposition (fire) may produce CO, CO ₂ , No _x |
| Hazardous polymerization | : | Will not occur |
| Conditions to avoid | : | None |

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| 11. TOXICOLOGICAL INFORMATION |
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| Study | Test Animal | Concentrate | 10% Solution | Toxicity |
|-------------------------|------------------|--------------------------------|---|-----------------------------|
| Acute Inhalation | Rat | --- | Nontoxic | LC ₅₀ >204mg/1 |
| Acute Oral | Rat | Non toxic | Non toxic | LD ₅₀ >5000mg/kg |
| Acute Dermal | Rabbit | Nontoxic | Nontoxic | LD ₅₀ >2000mg/kg |
| Primary Skin Irritation | Rabbit | Non-irritant PDI index=1.87 | Non-irritant PDI index=0.17 | |
| Primary Eye Irritation | Rabbit | Irritant | Nonirritant | |
| Repeated Insult patch | Human Volunteers | ----- | Possible defatting, Non-irritant, Nonsensitizer | |

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| 12. ECOLOGICAL INFORMATION |
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No Data Available

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| 13. DISPOSABLE CONSIDERATIONS |
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Waste dispose method : Must comply with local state and federal regulations. If pre treatment is needed, chemical treatment or ultra filtration may be used.

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| 14. TRANSPORT INFORMATION |
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Department of transportation : DOT Hazard Class: None
Trim[®] C270 is not classified as a hazardous material by DOT.

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| 15. REGULATORY INFORMATION |
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Resource conservation and Recovery act : EPA Hazardous Waste Number (s) : None
Trim[®] C270 is not classified as a hazardous waste by EPA.

Toxic Substances Control Act : All Trim[®] C270 ingredients are listed on the TSCA Inventory of chemical substances.

Superfund Amendments and Reauthorization Act of 1986 : Trim[®] C270 does not contain any Section 302/304 extremely Hazardous Substances or section 313 Toxic Chemicals

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| 16. OTHER INFORMATION |
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| | HMIS Hazard Index | Concentrate | NFPA Rating |
|-----------------------|------------------------|-------------|------------------------|
| (Health) | H=1 | | H=1 |
| (Fire) | F=0 | | F=0 |
| (Reactivity) | R=0 | | R=0 |
| (Personal Protection) | PP= A (safety glasses) | | Special hazards = None |

Typical Working Solution

| | | | |
|--|------------------------|--|------------------------|
| | H=1 | | H=1 |
| | F=0 | | F=0 |
| | R=0 | | R=0 |
| | PP= A (safety glasses) | | Special hazards = None |

Key **O**= Minimal **1**= Slight **2**= Moderate **3**= Serious **4**= Severe

This information is intended solely for the use of individuals trained in the particular system.

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