

MATERIAL SAFETY DATA SHEET
TRIM SOL® sf

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name TRIM SOL® sf

Material type General-purpose Emulsion — Siloxane Free

Classification/synonym(s) Chemical emulsion/Soluble oil

Product use Coolant and lubricant in metal removal processes

Manufacturer address MASTER CHEMICAL CORPORATION
501 West Boundary
Perrysburg, OH 43551-1200
419-874-7902

Emergency telephone 800-424-9300 **Fax number** 419-874-0684

2. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT | OSHA PEL | ACGIH TLV | OTHER LIMITS RECOM. | CAS # | %RANGE |
|--|------------------------------|------------------------------|------------------------------------|--|---------------|
| Severely hydrotreated petroleum oil | 5mg/m ³ (mist) | 5mg/m ³ (mist) | none | 64742-52-5 64742-58-1 64742-54-0 | 55-65 |

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

3. HAZARDS IDENTIFICATION

Emergency overview Blue-green liquid
No immediate hazard
Fire may produce oxides of carbon, nitrogen, sulfur, and acid chlorides

POTENTIAL HEALTH EFFECTS

| | | |
|--|-----------------|--|
| Acute effects of overexposure | Eye contact | Transient irritation |
| | Skin contact | Possible defatting, nonirritant, nonsensitizer |
| | Inhalation | Nontoxic |
| | Ingestion | Nontoxic |
| | Skin absorption | Nontoxic |

**Chronic effects of
overexposure** None currently known

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

Signs and symptoms of exposure None

Medical conditions generally aggravated by exposure None known

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 | Move 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) >230°F (>110°C) (COC) **Flammable limits** Not determined

Extinguishing media As appropriate for the surrounding fire: water (flood with water), dry chemical, CO₂, or "alcohol" foam

Special fire fighting procedures None **Unusual fire and explosion hazards** None

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.

Other precautions Refer to container labels.

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 Blue-green liquid

| | | |
|--|----------------|-------------|
| Odor | | Mild, sweet |
| pH of concentrate | 9.0–9.1 | |
| Typical operating pH (as range) | 8.0–9.0 | |
| Boiling point (ASTM D86) | >208°F (>98°C) | |
| Freezing point | 0°F (-18°C) | |
| Solubility in water | Soluble | |
| Specific gravity (H₂O=1) | 1.002 | |
| V.O.C. Content (EPA Method 24) | 1.945 lbs/gal | |
| Evaporation rate (butyl acetate=1) | 0.012 | |

10. STABILITY AND REACTIVITY

| | | | |
|---|---|----------------------------|------|
| Stability | Stable | Conditions to avoid | None |
| Incompatibility (materials to avoid) | Strong acids and oxidizers | | |
| Hazardous combustion or decomposition products | Thermal decomposition (fire) may produce oxides of carbon, nitrogen, sulfur, and acid chlorides | | |
| Hazardous polymerization | Will not occur | Conditions to avoid | None |

11. TOXICOLOGICAL INFORMATION

| Study | Test Animal | Concentrate | Results | |
|---------------------------|------------------|-------------------------------------|---------|--|
| | | | | 10% Solution |
| Acute inhalation toxicity | Rat | --- | | nontoxic LC ₅₀ >225mg/l |
| Acute oral toxicity | Rat | nontoxic LD ₅₀ >5g/kg | | nontoxic |
| Acute dermal toxicity | Rabbit | nontoxic LD ₅₀ >2g/kg | | nontoxic |
| Primary skin irritation | Rabbit | irritant PDI index=6.75 | | nonirritant PDI index=0.00 |
| Primary eye irritation | Rabbit | irritant | | nonirritant |
| Repeated insult patch | Human volunteers | --- | | possible defatting nonirritant nonsensitizer |

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal method Must comply with local, state, and federal regulations. If pre-treatment is needed, chemical treatment or ultrafiltration may be used. Contact Master Chemical Tech

Line (1-800-537-3365) for assistance.

14. TRANSPORT INFORMATION

Department of Transportation **DOT Hazard Class:** None
TRIM SOL® sf is not classified as a hazardous material by DOT.

15. REGULATORY INFORMATION

Resource Conservation and Recovery Act **EPA Hazardous Waste Number(s):** None
TRIM SOL® sf is not classified as a hazardous waste by EPA.

Toxic Substances Control Act All TRIM SOL® sf ingredients are listed on the TSCA Inventory of Chemical Substances.

Superfund Amendments and Reauthorization Act of 1986 TRIM SOL® sf does not contain any Section 302/304 Extremely Hazardous Substances or Section 313 Toxic Chemicals.

16. OTHER INFORMATION

| | HMIS Hazard Index | NFPA Rating |
|-----------------------|--------------------------|------------------------|
| | Concentrate | |
| (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 0 = minimal 1 = slight 2 = moderate 3 = serious 4 = severe

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

TRIM SOL® is a registered trademark of Master Chemical Corporation.

(C) 1963 – 2009 Master Chemical Corporation.

The information herein is given in good faith and believed current as of the date of this MSDS. Because conditions of use are beyond our control, no guarantee, representation, or warranty expressed or implied is made. Consult Master Chemical Corporation for further information.

Date of preparation December 21, 2009