



TRIM[®] Trim Sol

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

2. INFORMATION ON INGREDIENTS

- 2.1 Hazardous ingredients, giving the product its health characteristics : None
2.2 Product contains: Petroleum oil (30-60%), anionic and nonionic emulsifier, corrosion inhibitors, dye & water
2.3 Product does not contain: Nitrates, silicon, secondary amines (DAE), PCBs and PtBBA.

3. HAZARDOUS INGREDIENTS

- 3.1 Important Health Hazards : No significant health hazards are associated with this product when used as recommended.
3.2 Other Hazards : Spilled product may result in slippery floors.

4. FIRST AID MEASURES

- 4.1 Eyes : In case of eye contact with the concentrate, flush with running water for 15 minutes and contact the safety officer or a physician.
4.2 Skin : In case of skin contact with the concentrate, wash with water. Diluted product is not irritating to the skin when used as recommended and good personal hygiene is practiced. Remove severely contaminated clothes. Launder before re-use. If irritation persists, seek medical advice.
4.3 Ingestion : If concentrate or mix is swallowed, do not induce vomiting. Dilute by drinking water or milk. Contact physician immediately and obtain treatment.
4.4 Inhalation : Not expected to be a probable route of exposure to the product concentrate

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing media : Water, foam or CO₂
5.2 Special fire fighting procedures : None
5.3 Unusual fire and explosion hazards : None
5.4 Hazardous combustion products : Thermal decomposition may produce CO, CO₂, HCl, SO₂

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

- 7.1 Handling : Avoid contact with the concentrate. Use only as recommended on the product data sheet.
7.2 Storage : Store at room temperature. IF frozen, thaw completely at room temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Respiratory protection: None
8.2 Ventilation : General room temperature should be sufficient

- 8.3 Protective gloves : Recommended when handling concentrate
 8.4 Eye protection : Safety glasses
 8.5 Other protective clothing : None
 8.6 Work / Hygiene practices : Good personal hygiene should always be practiced.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|--|---|
| 9.1 Appearance : Dark green viscous liquid with a mild oily odor | 9.2 pH concentrate : Not applicable |
| 9.3 ph, freshly mixed @ 5% : 9.4% | 9.4 Boiling Point : Above 10°C |
| 9.5 Flash point : Above 100°C | 9.6 Vapor pressure : <1 |
| 9.7 Density : 990kg/m ³ | 9.8 Solubility in water (20°C) : Complete |

10. STABILITY AND REACTIVITY

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|---|---------------------------------|
| 10.1 Stability : Stable | 10.2 Conditions to avoid : None |
| 10.3 Materials to avoid : Strong oxidisers, acids and alkalis | |
| 10.4 Hazardous polymerisation : Will not occur | |

11. TOXICOLOGICAL INFORMATION

The following information is derived using the conventional method as recommended by EC guideline 88/379/EC, as well as experience from this and similar products.

	Product Concentrate	Product at use Dilution
11.1 Inhalation :	Not applicable	See note below
11.2 Eye contact :	Nonirritant	May cause stinging sensation
11.3 Skin contact :	Nonirritant	Nonirritant- see note below
11.4 Ingestion :	Not orally toxic	Nontoxic

Inhalation of diluted mix can occur in applications where high mist levels are generated. Concentrations of mist in the working atmosphere must be kept as low as possible. National regulations may apply (see 16).

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.

12. ECOLOGICAL INFORMATION

Due to the composition of mineral oil containing water soluble metalworking fluids, these products should not be allowed into the aquatic environment before treatment.

13. DISPOSABLE CONSIDERATIONS

Disposal procedures must comply with local regulations. If pretreatment is needed, chemical cracking or ultra filtration may be used.

14. TRANSPORT INFORMATION

- | | |
|---------------------------------------|---|
| 14.1 ADR / RID class : Not restricted | 14.2 IMDG (IMCO) class : Not restricted |
| 14.3 UN No : Not restricted | 14.4 IATA : Not restricted |

15. REGULATORY INFORMATION

EC labelling and classification : None, with our present knowledge not to be classified according to Directives 88/379/EC, 67/548/EC and the chemicals (Hazard information and packaging) regulations.

16. OTHER INFORMATION

- For additional technical information see the product Data sheet.
- UK EH 62 "Metalworking fluids - health precautions" from HSE.
- Germany : TRGS 611- Date of issue : 18th July 1997 Issue : 3