MATERIAL SAFETY DATA SHEET
TRIM® TAP NC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name  TRIM® TAP NC
Material type  Tapping Fluid
Classification/synonym(s)  Straight oil/None
Product use  Lubricant in metal removal processes
Manufacturer address  MASTER CHEMICAL CORPORATION
                      501 West Boundary
                      Perrysburg, OH  43551-1200
Emergency telephone  419-874-7902    Fax number  419-874-0684

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>OTHER LIMITS RECOM.</th>
<th>CAS #</th>
<th>%RANGE</th>
</tr>
</thead>
</table>

The exact chemical identities and percentages of the raw materials used in TRIM® TAP NC 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  Yellow liquid
No immediate hazard
Fire may produce oxides of carbon

POTENTIAL HEALTH EFFECTS

Acute effects of overexposure
Eye Contact  Transient irritation
Skin Contact  Possible defatting, possible irritant, 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
OSHA  No
IARC Monographs  No

Signs and symptoms of exposure  None

Medical conditions generally aggravated by exposure  None known

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4. FIRST AID MEASURES

Emergency and first aid procedures

<table>
<thead>
<tr>
<th>Body Part</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Flush immediately with cool, clean water for at least 15 minutes</td>
</tr>
<tr>
<td>Skin</td>
<td>Wash with mild soap and warm water</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Move to fresh air</td>
</tr>
<tr>
<td>Ingestion</td>
<td>If large quantities are ingested, contact a physician</td>
</tr>
</tbody>
</table>

In every case get medical attention as required.

5. FIRE FIGHTING MEASURES

Flash point (test method) | 385°F (196°C) (COC) |

Flammable limits |
Not determined |

Extinguishing media |
Water spray (fog), foam, dry chemical or CO₂ |

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 |
Refer to container labels |

Other precautions |
None |

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 |
Chemical resistant |

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
Yellow liquid

Odor
Mild, oily odor

pH
Not applicable

Boiling point (ASTM D86)
385°F (196°C)

Freezing point
Not determined

Solubility in water
Insoluble

Specific gravity (H₂O = 1)
0.939

V.O.C. Content (EPA Method 24)
Not determined

Evaporation rate (butyl acetate = 1)
< 1

10. STABILITY AND REACTIVITY

Stability
Stable

Conditions to avoid
None

Incompatibility
Strong acids and oxidizers

(materials to avoid)

Hazardous combustion or
Thermal decomposition (fire) may produce oxides of carbon

decomposition products

Hazardous polymerization
Will not occur

Conditions to avoid
None

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Study</th>
<th>Test Animal</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute inhalation toxicity</td>
<td>Rat</td>
<td>nontoxic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC₅₀ &gt; 206mg/l</td>
</tr>
<tr>
<td>Acute oral toxicity</td>
<td>Rat</td>
<td>nontoxic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD₅₀ &gt; 5g/kg</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>Rabbit</td>
<td>nontoxic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD₅₀ &gt; 2g/kg</td>
</tr>
<tr>
<td>Primary skin irritation</td>
<td>Rabbit</td>
<td>nonirritant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PDI = 3.54</td>
</tr>
<tr>
<td>Primary eye irritation</td>
<td>Rabbit</td>
<td>irritant</td>
</tr>
<tr>
<td>Repeated insult patch</td>
<td>Human</td>
<td>possible defatting</td>
</tr>
<tr>
<td></td>
<td>volunteers</td>
<td>possible irritant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>nonsensitizer</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal method
Dispose with typical oil waste in accordance with local, state, and federal regulations, etc.
14. TRANSPORT INFORMATION

Department of Transportation  DOT Hazard Class: None

TRIM® TAP NC is not classified as a hazardous material by DOT.

15. REGULATORY INFORMATION

Resource Conservation and Recovery Act  EPA Hazardous Waste Number(s): None

TRIM® TAP NC is not classified as a hazardous waste by EPA.

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

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

16. OTHER INFORMATION

HMIS Hazard Index  NFPA Rating

<table>
<thead>
<tr>
<th></th>
<th>HMIS Hazard Index</th>
<th>NFPA Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Health)</td>
<td>H = 1</td>
<td>H = 1</td>
</tr>
<tr>
<td>(Fire)</td>
<td>F = 0</td>
<td>F = 0</td>
</tr>
<tr>
<td>(Reactivity)</td>
<td>R = 0</td>
<td>R = 0</td>
</tr>
<tr>
<td>(Personal Protection)</td>
<td>PP = B (safety glasses &amp; gloves)</td>
<td>Special hazards = none</td>
</tr>
</tbody>
</table>

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.

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