

# Material Safety Data Sheet

<b>Section 1: Chemical Product and Company Information</b>	
<b>Product Name</b>	<b>Cimtech 100 Metalworking Fluid Concentrate</b>
<b>Distributor</b>	Radiac Abrasives, Inc. 1015 S. College Avenue P.O. Box 1410 Salem, IL 62881
<b>Phone Number</b> <b>Fax Number</b>	618-548-4200 618-548-4207
<b>Effective Date</b>	April 18, 2007

<b>Section 2: Composition/Information on Ingredients</b>		
<b>Chemical Name</b>	<b>CAS #</b>	<b>%</b>
Triethanolamine	102-71-6	3-7
Ethanolamine	141-43-5	3-7
Neodecanoic acid	26896-20-8	1-5
Nonanoic acid	112-05-0	1-5
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 available to health professionals as provided in the Standard.		

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<b>Section 3: Hazards Identification</b>	
<b>Overview:</b>	Product is alkaline. Product is a primary eye irritant. Product is corrosive to aluminum. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.
<b>Inhalation:</b>	Not applicable. Extended exposure to mists may cause upper respiratory irritation.
<b>Eye Contact:</b>	Product is primary eye irritant. Will cause stinging sensation in the eye.
<b>Skin Contact:</b>	Product is not a primary skin irritant. Not irritating to the skin when used as directed and good personal hygiene is practiced.
<b>Ingestion:</b>	Not orally toxic. Swallowing small quantities may cause diarrhea, nausea or vomiting.
<b>Medical Conditions Generally Aggravated By Exposure:</b>	May aggravate existing skin irritation where further defatting of skin penetration could occur. Mild skin irritation (redness and dryness of hands) may be experienced when the diluted product has been contaminated by certain oils and dissolved metals, or when mixing ratio is too strong. When problems occur, use of water-resistant barrier creams may be a temporary control measure. 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 a doubt about actual mist levels present, monitoring should be conducted. Repeated excessive exposures to high amounts of triethanolamine may cause liver and kidney effects.

<b>Section 4: First Aid Measures</b>	
<b>Eyes:</b>	In case of eye contact, flush immediately with running water for at least 15 minutes and get prompt medical attention.
<b>Skin:</b>	Diluted product is not irritating to the skin when used as recommended and good personal hygiene is practiced. For skin contact, flush with large amounts of water while removing contaminated clothing. Remove contaminated shoes and clothing and launder before reuse. If irritation persists, get medical attention.
<b>Inhalation:</b>	Inhalation can occur in applications where high mist levels are generated. OSHA has set a PEL of 15 mg/m <sup>3</sup> for any airborne particle as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m <sup>3</sup> for metalworking fluid mist. If symptoms are experienced, remove source contamination or move victim to fresh air. If symptoms persist, get medical attention.
<b>Ingestion:</b>	Swallowing small quantities of diluted product may cause nausea, diarrhea or abdominal distress. If the material is swallowed, get immediate medical attention or advice. <b>DO NOT INDUCE VOMITING.</b> Give two glasses of water or milk. Immediately contact a physician and obtain treatment.

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<b>Section 5: Fire Fighting Measures</b>	
<b>Flash Point:</b>	Not Applicable
<b>Hazardous Combustion Products:</b>	Smoke, fumes, oxides of nitrogen and oxides of carbon.
<b>Extinguishing Media:</b>	Not Applicable

<b>HMIS Hazard Rating</b>	
Health	1
Flammability	0
Physical	0

<b>NFPA Rating</b>	
Health	1
Flammability	0
Instability	0

<b>Section 6: Accidental Release Measures</b>	
<b>Clean Up:</b>	Contain the spill, collect an absorbent material, and discard as dictated by Federal, state and local regulations that may apply. Flush area thoroughly with water.
<b>Disposal (Used Product):</b>	Disposal procedures must comply with local, county, state and Federal regulations. If pre-treatment is needed, ultrafiltration, emulsion breaking or evaporation may be used.
<b>Disposal (Unused Product):</b>	Product is not hazardous waste as defined under 40CFR261.
<b>Disposal (Empty Containers):</b>	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.

<b>Section 7: Handling and Storage</b>	
<b>Handling &amp; Storage:</b>	If frozen, thaw completely at room temperature prior to use. Avoid all contact with eyes or skin. Wash thoroughly after handling. Do not swallow. Do not store product concentrate in direct sunlight or elevated temperatures.
<b>Other Precautions:</b>	Contains amines. Do not add sodium nitrate or other nitrosating agents to this product because suspected cancer causing nitrosamines may be formed.

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### **Section 8: Exposure Controls/Personal Protections**

<b>Respiratory Protection:</b>	Product is not volatile. In applications where time-weighted exposures are 0.5 to 5 mg/m <sup>3</sup> , mist reduction through improved ventilation, mist collection or process modification is recommended by NIOSH. Where it is not possible, NIOSH recommends the use of air purifying, half-mask respirator including a disposable respirator, equipped with any P- or R- series particulate filter. If the average exposure will exceed 5 mg/m <sup>3</sup> , NIOSH recommends use of powered, air-purifying respirator with a hood or helmet and a HEPA filter. If respiratory problems are present when mist levels are < 0.5 mg/m <sup>3</sup> , respiratory protection should be based on the individual recommendation of a qualified health care provider. CAUTION: The appropriate use and type of respirator is dependent upon use of the product and local operating conditions.
<b>Skin Protection:</b>	Impervious gloves, such as nitrile gloves, are recommended when handling product concentrate.
<b>Eye Protection:</b>	Proper metalworking plant eye protection required when handling product concentrate.
<b>Ventilation:</b>	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.
<b>Other:</b>	Use effective metalworking plant protective clothing as appropriate. Good personal hygiene should also be followed.

### **Section 9: Physical and Chemical Properties**

<b>Boiling Point:</b>	212°F
<b>Specific Gravity:</b>	1.047
<b>Evaporation Rate:</b>	Like water when diluted
<b>Solubility (Water):</b>	100% Miscible
<b>Volatile Organic Content:</b>	9.36%
<b>pH (Concentrate):</b>	10
<b>pH (Mix)</b>	9.1 @ 5%
<b>Recommended Use Dilution Rate:</b>	5%
<b>Appearance/Odor:</b>	Clear/Chemical

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### **Section 10: Stability and Reactivity**

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Use as directed.
<b>Materials To Avoid:</b>	Avoid contact with strong acids or oxidizers to product.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Combustion Products:</b>	Smoke, fumes, oxides of nitrogen and oxides of carbon.

### **Section 11: Toxicological Information**

No Information Available

### **Section 12: Ecological Information**

No Information Available

### **Section 13: Disposal Considerations**

Dispose of in accordance with local, state and federal regulations.

### **Section 14: Transport Information**

<b>By Land:</b>	<b>Hazardous Materials Description and Proper Shipping Name (49CFR172.101):</b> Not a hazardous material. <b>U.S. Harmonized Tariff Code:</b> 3403.99.0000
<b>By Air or Vessel:</b>	<b>Hazardous Materials Description and Proper Shipping Name (49CFR172.101):</b> Corrosive liquid, acidic, organic, n.o.s. <b>Hazard Class (49CFR172.101):</b> 8 <b>Identification Number:</b> UN3265 <b>Packing Group:</b> III

### **Section 15: Regulatory Information**

<b>Exposure Guidelines</b>	<b>NIOSH</b>	<b>OSHA</b>	<b>OSHA</b>	<b>ACGIH</b>	<b>ACGIH</b>
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<b>Regulated Material</b>	<b>REL</b>	<b>PEL</b>	<b>STEL</b>	<b>TLV</b>	<b>STEL</b>
Treithanolamine				5 mg/m <sup>3</sup>	
Ethanolamine		3 ppm	6 ppm	3 ppm	6 ppm
Metalworking Fluid Mist	0.5 mg/m <sup>3</sup>				
<b>CERCLA</b>	No components of this product are present at levels which require reporting under 40CFR302.4				
<b>EPCRA (SARA) Title III Extremely Hazardous Substances (302):</b>	None				
<b>Hazardous Substances (311/312):</b>	Product is a hazardous substance as defined under the OSHA Hazard Communication Standard and may be reportable under the provisions of SARA 311 and 312.				
<b>Hazard Categories:</b>	Acute Health: Yes Chronic Health: No Fire: No Sudden Release of Pressure: No Reactive: No				
<b>RCRA:</b>	Product concentrate does not meet the definition of a hazardous waste as defined under 40CFR261. It is possible that in use, the product 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.				
<b>TSCA:</b>	The ingredients of this product are on the TSCA inventory.				
<b>State Right To Know:</b>	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.				

### ***Section 16: Other Information***

The information and recommendations set forth are taken from sources believed to be accurate. Radiac Abrasives, Inc. makes no warranty with respect to the accuracy of this information or the suitability of these recommendations, assumes no liability to any user thereof. It is the responsibility of the user to investigate and understand pertinent sources of information to comply with all laws and procedures applicable to the safe use and handling of the product and to determine the suitability of the product for its intended use.