### MATERIAL SAFETY DATA SHEET

#### **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME	Hypertherm Torch Coolant	
Latest Revision Date	Nov. 7, 2008	EMERGENCY TELEPHONE NUM

ISSUE DATE Nov. 7, 2008

**DISTRIBUTOR:** Hypertherm, Inc.

> 21 Great Hollow Road Hanover, N.H. 03755

#### BERS

Product Information: (603) 643-3441

### **SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous **EXPOSURE LIMITS** Component CAS No. % by wt. OSHA PEL **ACGIHTLV** R Phrases 95-14-7 N.E. R22,36/37/38 Benzotriazole <1,0 N.E. N.E. Propylene Glycol 57-55-6 <50,0 N.E. R36/37/38

### **SECTION 3 - HAZARDS IDENTIFICATION**

Emergency Overview	Causes eye irritation. May be harmful if swallowed. May cause skin irritation

Potential Health Effects	
Ingestion	Oral LD 50 (rat) as reported for 100% Benzotriazole is 560 mg./Kg.
Inhalation	Mists are harmful.
eye contact	Causes eye irritation.
skin contact	Can cause skin irritaion.

## **SECTION 4 - FIRST AID MEASURES**

Ingestion	Seek immediate medical attention.
Inhalation	If affected, remove from exposure. Restore breathing. Keep warm and quiet. Seek medical attention.
Eye Contact	Immediately flush eye with cool running water. Remove contact lenses if applicable. Continue flushing with water for at least 15 minutes. Seek immediate medical attention.
Skin Contact	Wash with soap and water. If irritation develops or persists, seek medical attention.
Note to Physician	Treatment based on judgment of the physician in response to reactions of the patient.

## **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point / Method	None to boiling.	Flammable limits	Not Established
Extinguishing media	Product is an aqueous solution. Use Carbon Dioxide, Dry Chemical, Foam.		
special fire fighting procedures	Full protective equipment including self-contained breathing apparatus should be used. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Get medical attention.		
Fire and explosion hazards	Water base solution.		

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Response to spills	Small spills: Mop up residues and place in a covered waste disposal container.  Large spills: Dike or dam spill. Pump to containers or soak up on inert absorbent. Place in
	covered waste dissposal container.

# **SECTION 7 - HANDLING AND STORAGE**

Handling precautions	Keep container in upright position. Avoid breathing or creating airborne mists. Avoid contact with skin eyes, and clothing. Avoid inhalation of vapor or mists. DO NOT TAKE INTERNALLY. Clean up spills immediately.
Storage precautions	Store in a cool dry place. Keep from freezing. Keep containers tightly closed when not in use.

## **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

Hygienic practices	Normal procedures for good hygiene.	
Engineering controls	Good general ventilation. Eye wash station in immediate area of use.  M.E.L./O.E.S Nil. U.K HSE EH:40 Not listed	

#### Personal protective equipment

Χ	Respirator	If exposed to mists.
Χ	goggles / face shield	Recommended
	APRON	
Χ	Gloves	Recommended; PVC, Neoprene or Nitrile acceptable
	Boots	

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear Pink/Red Liquid	Boiling point	100EC
ODOR	None	None freezing point	
pH of Concentrate	5,5-7,0	vapor pressure	Not applicable
Specific gravity	1,0	vapor density	Not applicable
solubility in water	Complete	evaporation rate	Not determined

## **SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability		Stable	Х		Unstable	
Conditions to avoid	None	None				
Incompatibility	None Known					
Hazardous products of decomposition	BY FIRE: Carb	BY FIRE: Carbon Dioxide, Carbon Monoxide Nitrogen Oxides				
Polymerization		Will not occur		Х	May occur	
Conditions to avoid	Not applicable					

# **SECTION 11 - TOXICOLOGICAL INFORMATION**

#### Carcinogenicity

		THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
Γ	Χ	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING
	^	TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z

#### Other effects

Acute	Not determined	
Chronic	Not determined	

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### **SECTION 12 - ECOLOGICAL INFORMATION**

Biodegradability	Considered biodegradable	Not biodegradable			
BOD / COD Value	Not established				
Ecotoxicity	As reported for 100% Benzotriazole: Bluegill Sunfish (96 hr. Tlm):28mg/l; Minnow (96hr. Tlm):28mg/l; Trout (96 hr. LC 50): 39mg/l; Algae(96hr. EC 50): 15.4mg/l; Daphina magna (48 hr. LC 50): 141.6mg/l				

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Waste disposal method	Waste material must be disposed of in accordance with national/local legislative requirements.			al			
RCRA Classification	Non Haza	ardous					
Recycle container		Yes	Χ	CODE	2 – HDPE		No

### **SECTION 14 - TRANSPORT INFORMATION**

DOT Classification	Hazardous	Not Hazardous	Х
Description	Not applicable		

#### **SECTION 15 - REGULATORY INFORMATION**

#### REGULATORY STATUS: Benzotriazole

1.	Labeling Information	Irritant	
2.	R Phrases	R 36/37/38, 22	
3.	S Phrases	S 24/25, 26	
4.	EI NECS No.	Not listed	
5.	EC annex 1 Classification	Nil.	
6.	German WGK	-	

#### **SECTION 16 - OTHER INFORMATION**

#### NFPA Classification

1 BLUE		Health hazard
0	RED	Flammability
0 YELLOW		reactivity
_	WHITE	Special hazard

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Hypertherm, Inc., in connection with the use of this information.