

Date	SAFETY DATA SHEET	Revision
6 Dec 2010		2.01CLP

1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier – Corrosion Inhibitor

GHS Product Identifier – Not applicable.

Chemical Name – Not applicable.

Trade name – Corrosion Inhibitor

CAS No. – Not applicable.

EINECS No. – Not applicable.

REACH Registration No. - Not available

Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) – Industrial use only.

Uses advised against - Not available

Details of the supplier of the safety data sheet

Hypertherm®

Company Identification – Hypertherm

Telephone - +1 (603) 643-5638 (USA), +31 (0) 165 596 907 (Europe)

E-Mail (competent person) - technical.service@Hypertherm.com

Address – P.O. Box 5010, Hanover, NH 03755 USA (USA),

Vaartveld 9, 4704 SE Roosendaal, Nederlands (Europe)

Emergency telephone number - (800) 255-3924 (USA), +1 (813) 248-0585 (International) 

2 - HAZARDS IDENTIFICATION

EC Classification		GHS Classification Signal word(s)	
Xn	Harmful	WARNING	Harmful (3.1/4, 4.1/4)

According to Regulation (EC) No. 1272/2008 (CLP) - Acute Tox. 3, Aquatic Chronic 3.

According to Directive 67/548/EEC & Directive 1999/45/EC - Xn (Harmful), R20/22, R36.

Risk Phrases

R20/22: Harmful by inhalation and if swallowed.

R36: Irritating to eyes.

Safety Phrases

S23: Do not breathe vapour/spray.

S24/25: Avoid contact with skin and eyes.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazard statement(s)

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

Precautionary statement(s)

P264: Wash (hands and exposed skin) thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	%W/W	CAS No.	EC No.	EC Classification
Benzotriazole	5-10	95-14-7	202-394-1	Xn: R20/22, R36/37/38, R52/53
GHS Classification				
WARNING  	Acute Tox. 4 (Oral, Dermal, Inhalation) Eye Irrit. 2, Aquatic Chronic 3		H302,312,319,332,412	

For full text of R phrases see section 16. For full text of H/P phrases see section 16. Non-hazardous components are not listed.

Date	SAFETY DATA SHEET	Revision
6 Dec 2010	Corrosion inhibitor	2.01CLP

4 - FIRST AID MEASURES

Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	IF ON SKIN: Gently wash with plenty of soap and water..
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Call a POISON CENTRE or doctor/physician.
Further Medical Treatment	Unlikely to be required but if necessary treat symptomatically.

5 - FIRE-FIGHTING MEASURES

Combustible but not readily ignited.

Extinguishing media	Extinguish preferably with dry chemical, foam or waterspray.
Unsuitable Extinguishing Media	None known.
Fire Fighting Protective Equipment	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions	Put on protective clothing.
Environmental Exposure	Adsorb spillages onto sand, earth or any suitable adsorbent material.
Controls	Place in a waterproof sack or drum and remove to a safe place.
Other	None.

7 - HANDLING AND STORAGE

HANDLING	Avoid contact with skin. Avoid inhalation of mists. Avoid contact with eyes. Wear suitable protective clothing.
STORAGE	Keep container tightly closed and dry. Keep away from heat. Keep out of the reach of children. Keep away from oxidising agents.
Storage Temperature:	Ambient.
Storage Life:	Stable at ambient temperatures.
Specific use:	Industrial use only.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respirators	Normally no personal respiratory protection is necessary. Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable dust mask or dust respirator with filter type A/P may be appropriate.
 Eye Protection	Safety spectacles.
 Gloves	Wear suitable gloves.
 Body protection	Wear chemical resistant apron..
Engineering Controls	Ensure adequate ventilation to remove vapours, fumes, dust etc.
Other	None.

Date	SAFETY DATA SHEET	Revision
6 Dec 2010	Corrosion inhibitor	2.01CLP

OCCUPATIONAL EXPOSURE LIMITS

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note:
Benzotriazole	95-14-7	NE	NE	NE	NE	None

9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance - Liquid.	Vapour Pressure (mm Hg) - - Not available
Colour - Clear.	Vapour Density (Air=1) - Not available
Odour - Slight	Density (g/ml) - 1.0 ± 0.1 g/ml
Odour Threshold (ppm) - Not available	Solubility (Water) - Soluble
pH (Value) - 10.0-10.5	Solubility (Other) - Not established
Melting Point (°C) / Freezing Point (°C) - ~ 0°C / (~ 32°F)	Partition Coefficient (n-Octanol/water) - Not available
Boiling point/boiling range (°C): ~ 100°C (~212°F)	Auto Ignition Temperature (°C) - Not available
Flash Point (°C) - >95°C (>203°F)	Decomposition Temperature (°C) - Not available
Evaporation rate - Not available	Viscosity (mPa.s) - Not available
Flammability (solid, gas) - Non-flammable	Explosive properties - Not explosive
Explosive limit ranges - Not available	Oxidising properties - Not oxidising

Other information

None

10 - STABILITY AND REACTIVITY

Reactivity	None.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None.
Conditions to avoid	None anticipated.
Incompatible materials	Keep away from oxidising agents.
Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide, Nitrogen oxides

11 - TOXICOLOGICAL INFORMATION

11.1.1 Substances

Acute toxicity -	
Ingestion	Harmful if swallowed. Ingestion may cause irritation of the gastro-intestinal tract. Benzotriazole LD ₅₀ = 560 mg/kg (oral, rat).
Inhalation	Harmful by inhalation. The vapour has irritant effect on air passages. Benzotriazole LC ₅₀ = 1400 ppm (inhalation, rat, 4 hours).
Skin Contact	Causes skin irritation. Benzotriazole LD ₅₀ ≥ 1000 mg/kg (dermal, rat)
Eye Contact	Causes eye irritation.
Hazard label(s)	HARMFUL
Serious eye damage/irritation	Causes skin irritation. Causes eye irritation.
Respiratory or skin sensitization	Irritant effect on skin and air passages.
Mutagenicity	Not known.
Carcinogenicity	IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.
Reproductive toxicity	Not known.
STOT-single exposure	Not known.
STOT-repeated exposure	Not known.
Aspiration hazard	Not known.

Date	SAFETY DATA SHEET	Revision
6 Dec 2010	Corrosion inhibitor	2.01CLP

12 - ECOLOGICAL INFORMATION

Toxicity -	Do not let this chemical/product enter the environment..
Persistence and degradability -	Moderately/partially biodegradable.
Bioaccumulative potential	None anticipated.
Mobility in soil	The product is predicted to have moderate mobility in soil.
Results of PBT and vPvB assessment	None assigned.
Other adverse effects	None anticipated.

13- DISPOSAL CONSIDERATIONS

Waste treatment methods - Disposal should be in accordance with local, state or national legislation. No special measures are required. No specific waste water pretreatment required.

Additional Information - None

14 - TRANSPORT INFORMATION

Not classified as dangerous for transport.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

15 - REGULATORY INFORMATION

Not classified as dangerous for transport. Not classified as dangerous for supply/use.

USA

TSCA (Toxic Substance Control Act) - **Listed**.

SARA 302 - Extremely Hazardous Substances **Not applicable**.

SARA 313 - Toxic Chemicals - **Not applicable**.

SARA 311/312 - Hazard Categories - **None**

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) - **Not applicable**.

CWA (Clean Water Act) – CWA 307 - Priority Pollutants - **None**

CAA (Clean Air Act 1990) - CAA 112 - Hazardous Air Pollutants (HAP) - **None**

Proposition 65 (California) - **Not applicable**.

State Right to Know Lists – **CAS No. 95-14-7 Listed in MA, NJ, PA.**

Canada

WHMIS Classification (Canada) - **Not classified**

CANADA INGREDIENT DISCLOSURE LIST - **Not applicable**.

Canada (DSL/NDSL) **Listed**.

EU

EINECS (Europe) - **Listed**.

Wassergefährdungsklasse (Germany) - **NONE**

Date	SAFETY DATA SHEET	Revision
6 Dec 2010	Corrosion inhibitor	2.01CLP

16 - OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEL	Predicted No Effect Concentration

References:

Casarret & Doull's Toxicology, Patty's Industrial Hygiene and Toxicology, Goldfrank's Toxicological Emergencies, various data from Sigma-Aldrich, Baker-Mallindkrodt, Fisher Scientific, et al.

Risk Phrases and Safety Phrases

R20/22: Harmful by inhalation and if swallowed.
 R36: Irritating to eyes.
 R36/37/38: Irritating to eyes, respiratory system and skin.
 R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 S23: Do not breathe vapour/spray.
 S24/25: Avoid contact with skin and eyes.
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazard statement(s) and Precautionary statement(s).

H302: Harmful if swallowed.
 H312: Harmful in contact with skin.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled.
 H412: Harmful to aquatic life with long lasting effects.
 P264: Wash (hands and exposed skin) thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
 P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Training advice:

None.

Additional Information

USA - NFPA (National Fire Protection Association) - NFPA Rating: **Flammability-1, Health-1, Instability/Reactivity – 0.**

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Hypertherm gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Hypertherm accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.