in roduct and company rechinication			
ClearWeld			
Mixture			
Bonds and repairs			
J-B Weld Company P.O. Box 483 Sulphur Springs, TX 75482 US Phone: 903-885-7696			
2. Hazards Identification			
DANGER CAUSES EYE BURNS. CAUSES SKIN BURNS. MAY CAUSE ALLERGIC SKIN REACTION.			
S			
Eye, Skin contact, Skin absorption, Inhalation, Ingestion.			
May cause chemical burns. May cause blindness.			
May cause chemical burns. May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.			
May cause respiratory tract irritation.			
Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.			
Eyes. Skin.			
Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.			
The product causes burns of eyes, skin and mucous membranes.			
See section 12.			

#### **1. Product and Company Identification**

#### 3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Bis[(dimethylamino)methyl]phenol	71074-89-0	1 - 5
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	90-72-2	10 - 30
Oxirane, 2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis, homopolymer	25085-99-8	10 - 30
N-(2-Aminoethyl)piperazine	140-31-8	10 - 30
Benzyl alcohol	100-51-6	3 - 7
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomega(2-hydroxy-3-mercaptopropoxy)-, .alpha.,.alpha.',.alpha.''-ether with 2-(hydroxymethyl)-2-methyl-1,3-propanediol (3:1)	101359-87-9	30 - 60

#### 4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Skin contact	Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician	Symptoms may be delayed.

General advice

**Environmental precautions** Methods for containment

Methods for cleaning up

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

#### 5. Fire-fighting Measures Not flammable by WHMIS criteria. **Flammable properties** Extinguishing media Suitable extinguishing media Dry chemical. Water spray. Foam. Carbon dioxide. Unsuitable extinguishing media Not available Protection of firefighters Not available Specific hazards arising from the chemical Protective equipment for Firefighters should wear full protective clothing including self contained breathing apparatus. firefighers May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hazardous combustion products Explosion data Sensitivity to mechanical Not available impact Not available Sensitivity to static discharge 6. Accidental Release Measures Keep unnecessary personnel away. Do not touch or walk through spilled material. Do Personal precautions not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak. Do not discharge into lakes, streams, ponds or public waters.

Stop leak if you can do so without risk. Prevent entry into waterways, sewers,

basements or confined areas. Use water spray to reduce vapours or divert vapour cloud

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled

Handling	Use good industrial hygiene practices in handling this material. DO NOT get in eyes. Do NOT get on skin. Avoid prolonged or repeated skin contact with this material. Avoid breathing vapours or mists of this product. Wash thoroughly after handling.
Storage	Keep out of the reach of children. Store in a closed container away from incompatible materials.

drift.

Contact emergency

#### 8. Exposure Controls / Personal Protection

Exposure limit values		
Ingredient(s)		Exposure limit values
Benzyl alcohol		ACGIH-TLV
		Not established
Bis[(dimethylamino)methyl]phenol		ACGIH-TLV
		Not established
N-(2-Aminoethyl)piperazine		ACGIH-TLV
		Not established
Oxirane,		ACGIH-TLV
2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]t homopolymer		Not established
Phenol, 2,4,6-tris[(dimethylamino)meth	ıyl]-	ACGIH-TLV
		Not established
Poly[oxy(methyl-1,2-ethanediyl)],		ACGIH-TLV
.alphahydroomega(2-hydroxy-3-mo .alpha.,.alpha.',.alpha."-ether with	ercaptopropoxy)-,	Not established
2-(hydroxymethyl)-2-methyl-1,3-propar	nediol (3:1)	
Engineering controls	Use only under good	ventilation conditions or with respiratory protection.
Personal protective equipment		
Eye/Face protection	Safety glasses or goggles.	
Hand protection	Rubber gloves. Confirm with a reputable supplier first.	
Skin and body protection	As required by employer code.	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.	
General hygiene considerations	s Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.	

## 9. Physical and Chemical Properties

Appearance	Viscous
Colour	White / Yellow
Form	Liquid
Odour	Ammoniacal.
Odour threshold	Not available
Physical state	Liquid
рН	11.3
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	> 140 °C (> 284.00 °F)
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available

## 10. Stability and Reactivity

Reactivity	This product reacts with acids.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

# 11. Toxicological Information

Component analysis - LC50			
Ingredient(s)		LC50	
Benzyl alcohol		8.8 mg/l/4h rat	
Bis[(dimethylamino)methyl]phenol		Not available	
N-(2-Aminoethyl)piperazine		Not available	
Oxirane, 2,2-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]t homopolymer		Not available	
Phenol, 2,4,6-tris[(dimethylamino)meth	yl]-	Not available	
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomega(2-hydroxy-3-mercaptopropoxy)-, .alpha.,.alpha.',.alpha.''-ether with 2-(hydroxymethyl)-2-methyl-1,3-propanediol (3:1)		Not available	
Component analysis - Oral LD50			
Ingredient(s)		LD50	
Benzyl alcohol		1230 mg/kg rat	
Bis[(dimethylamino)methyl]phenol		Not available	
N-(2-Aminoethyl)piperazine		1470 mg/kg rat	
Oxirane, 2,2-[(1-methylethylidene)bis(4,1-pheny homopolymer	eneoxymethylene)]t	30000 mg/kg rat	
Phenol, 2,4,6-tris[(dimethylamino)methyl]-		1200 mg/kg rat	
Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomega(2-hydroxy-3-mercaptopropoxy)-, .alpha.,.alpha.',.alpha.''-ether with 2-(hydroxymethyl)-2-methyl-1,3-propanediol (3:1)		Not available	
Effects of acute exposure	May cause chomical h	urne May cause blindhese	
Eye Skin	May cause chemical burns. May cause blindness. May cause chemical burns. May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.		
Inhalation	May cause respiratory	•	
Ingestion	Harmful if swallowed.	May cause chemical burns to mouth, throat and stomach.	
Sensitisation	May cause sensitisation by skin contact.		
Chronic effects	Non-hazardous by WHMIS criteria.		
Carcinogenicity	Non-hazardous by WHMIS criteria.		
Mutagenicity	Non-hazardous by WHMIS criteria. Benzyl alcohol has caused an increase in chromosomal aberrations in Chinese hamster ovary cells.		
Reproductive effects	Non-hazardous by WHMIS criteria.		
Teratogenicity	Non-hazardous by WHMIS criteria.		
Name of Toxicologically Synergistic Products	Not available		

## 12. Ecological Information

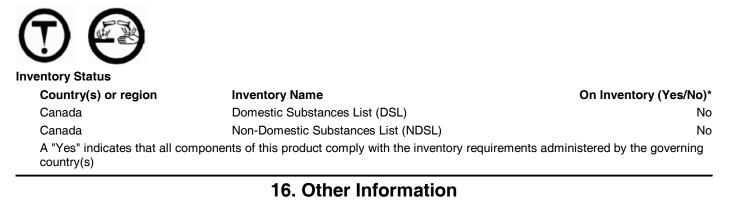
Ecotoxicity	Components of this product have been identified as having potential environmental			
Factoriaity Freebuctor Algoe	concerns.			
Ecotoxicity - Freshwater Algae -	-			
Benzyl alcohol N-(2-Aminoethyl)piperazine	100-51-6 140-31-8	3 Hr EC50 Anabaena variabilis: 35 mg/L 72 Hr EC50 Pseudokirchneriella subcapitata: 495 mg/L		
Ecotoxicity - Freshwater Fish - A		72 Th LOSOT Seddokirchnenella Subcapitata. 495 mg/L		
Benzyl alcohol	100-51-6	96 Hr LC50 Pimephales promelas: 460 mg/L [static]; 96 Hr LC50 Lepomis macrochirus 10 mg/L [static]		
N-(2-Aminoethyl)piperazine	140-31-8	96 Hr LC50 Pimephales promelas: 1950-2460 mg/L [flow-through]; 96 Hr LC50 Poecilia reticulata: >1000 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: >=100 mg/L [semi-static]		
Ecotoxicity - Water Flea - Acute	Toxicity Data			
Benzyl alcohol	100-51-6	48 Hr EC50 water flea: 23 mg/L		
N-(2-Aminoethyl)piperazine	140-31-8	48 Hr EC50 Daphnia magna: 32 mg/L		
Persistence and degradability	Not availabl	e		
Bioaccumulation/accumulation	Not availabl	e		
Mobility in environmental media	Not availabl	e		
Environmental effects	Not available			
Aquatic toxicity	Not available			
Partition coefficient	Not available			
Chemical fate information	Not available			
Other adverse effects	Not availabl	e		
	13. Dis	sposal Considerations		
Disposal instructions	Review fede	ral, provincial, and local government requirements prior to disposal.		
Waste from residues / unused products	Not available			
Contaminated packaging	Not available			
	14. T	ransport Information		

basic sinpping requirement	5.	
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (1-PIPERAZINEETHANAMINE)	
Hazard class	8	
UN number	UN2735	15.11 3.22
Packing group	III	
Additional information:		
Special provisions	16	8
Packaging exceptions	Limited quantity <5L	

# 15. Regulatory Information

Canadian federal regulations	Products	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.		
Canada - WHMIS - Ingredient I	Disclosure List			
Benzyl alcohol	100-51-6	1 %		
N-(2-Aminoethyl)piperazine	140-31-8	1 %		
WHMIS classification	Class D	Class D - Division 2B, Class E - Corrosive Material		
WHMIS status	Controlle	ed		

#### WHMIS labeling



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Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and

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Health

Flammability

**Physical Hazard** 

Personal Protection

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Disclaimer

	regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
Issue date	24-Dec-2012
Effective Date	15-Dec-2012
Expiry Date	15-Dec-2015
Prepared by	Dell Tech Laboratories Ltd. (519) 858-5021
Other Information	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.