MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

Supplier/Manufacturer:

American Polywater Corporation
11222 - 60th Street North
P.O. Box 53
Stillwater, MN 55082 USA
Phone: 1-651-430-2270
Fax: 1-651-430-3634

Polywater Europe BV
Mauritsplaat 126
NL-3012CD Rotterdam
Netherlands
Tel: +31 10 233 0578

Emergency Number: +1-651-430-2270

Product Name: BonDuit®
Gel Resin – BT
Part A Reusable Cartridge Package

Chemical Description: Sealant Resin, Part A of two-part sealant

Product Use: Adhesive

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	EC #	Wt %
Bisphenol A Diglycidyl Ether	25068-38-6	500-033-5	75 – 90

3. HAZARDS IDENTIFICATION

Emergency Overview: Moderate skin and eye irritant. May cause allergic skin reaction. Keep out of reach of children. Industrial use only.

Eye Contact: Direct eye contact with material or vapors may cause eye irritation. Contact at elevated temperatures may cause thermal burns.

Skin Contact: This product has moderate skin irritation potential. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material. Prolonged or repeated skin exposure may cause skin sensitization.

Irritation and Sensitization Potential: This product has moderate skin irritation potential. It is not a sensitizer.

Inhalation (Breathing): Low vapor pressure makes this route of exposure unlikely.

Ingestion (Swallowing): Material has a low level of oral toxicity. Ingestion may cause irritation of the gastrointestinal tract.

4. FIRST AID MEASURES

Eye Contact: Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.

Ingestion (Swallowing):	Drink one or two glasses of milk or water. Do not induce vomiting. If victim is unconscious, place on the left side with head down. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point:	>400°F (204°C) PMCC
Flammable Limits:	Not Available
Autoignition Temperature:	Not Available
Hazardous Decomposition and By-Products:	CO_2, CO, aldehydes, acids and other organic substances may be formed during combustion or elevated temperature (>500°F) degradation.
Extinguishing Media:	Water Fog, Carbon Dioxide, Dry Chemical or Foam.
Special Precautions:	Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.
Unusual Hazards:	Heating above 300°F in the presence of air may cause slow oxidative decomposition and above 500°F may cause polymerization.

6. ACCIDENTAL RELEASE MEASURES

Major spill unlikely with small package. Residual resin may be removed using steam or hot soapy water. Dispose of according to local and federal regulations. Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

7. HANDLING AND STORAGE

Keep cartridge tightly closed. Reseal cartridge after use. Keep cartridge cool, dark, dry, and away from sources of ignition. Protect from freezing. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. All cartridges should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame operations (i.e. torches used to install heat shrink products) on or near cured product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	None required for normal handling temperatures and conditions.
Protective Gloves:	The use of impermeable gloves is recommended to prevent skin contact.
Eye Protection:	Eye protection is recommended, especially if the material is used in ways where it could contact the eyes.
Other Protective Equipment:	Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Thin, black paste
Odor Threshold:	Not Available

Vapor Density (Air = 1):	>1
Specific Gravity (H_2O = 1):	<2.0
Solubility in Water:	Not Available
Boiling Point:	Not Available
Freezing Point:	Not Available
Evaporation Rate:	<1 (n-butyl acetate = 1)
Vapor Pressure:	< 0.001 mm Hg @ 20°C
Coefficient of Water/Oil Distribution:	Not Available
pH:	Not Applicable
Volatiles (Weight %):	0%
VOC Content:	0 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid heat and flame.
Materials to Avoid:	Strong acids or bases (especially primary or secondary aliphatic amines), strong oxidizing agents.
Hazardous Decomposition and By- Products:	CO_2, CO, aldehydes, acids and other organic substances may be formed during combustion or elevated temperature (>500°F) degradation.
Conditions Under Which Hazardous Polymerization May Occur:	When BonDuit® Resin (Part A) is mixed with BonDuit® Hardener (Part B), heat is generated. Use caution if combining and mixing more than one cartridge.

11. TOXICOLOGICAL INFORMATION

Toxicity to Animals:	Bisphenol A Diglycidyl Ether	LD_{50} (oral) >2000 mg/kg LD_{50} (dermal) >2000 mg/kg
Chronic Exposure:	Not Available	
Carcinogenic Status:	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.	
Reproductive Toxicity:	Not Available	
Mutagenicity:	Resins based on diglycidyl ether of bisphenol A have proved to be inactive when tested by in-vivo mutagenicity assays. These resins have shown activity in in-vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat-liver cells. The significance of these tests to humans is unknown.	
Teratogenicity:	Not Available	
Toxicologically Synergistic Products:	Not Available	

12. ECOLOGICAL INFORMATION

Mobility:	No information available.
Bioaccumulation:	No information available.
Ecotoxicity:	No information available.
Aquatic Toxicity:	May be toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with National and Local Regulations.

14. TRANSPORTATION INFORMATION

DOT:	Not Regulated
UN Number:	3082
UN Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S. (Epoxy Resin)
Class and Subsidiary Risk:	9
Packing Group:	III
ICAO/IATA-DGR:	9, Marine Pollutant
IMDG:	9, Marine Pollutant
ADR/RID:	9

15. REGULATORY INFORMATION

USA Federal and State

All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting	Acute	Chronic	Fire	Pressure	Reactive
	Yes	No	No	No	No

Components	CERCLA/SARA Sec 302 Hazardous Substance RQ	CERCLA/SARA Sec 302 EHS TPQ	SARA Sec. 313 Toxic Release
Components are not affected by these Superfund regulations			

European Union

Product is classified as hazardous according to European Directives 88/379/EEC and 67/548/EEC and EU Regulation (EC) No 1272/2008.

Risk Phrases:	R36/38: Irritating to eyes and skin. R43: May cause sensitization by skin contact. R51/53: Toxic to aquatic organisms.
Safety Phrases:	S2: Keep out of reach of children. S28: After contact with skin, wash immediately with plenty of water. S37/39: Wear suitable gloves and eye/face protection. S61: Avoid release to the environment.

Symbol:	Xi: Irritant N: Dangerous for the environment.

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Classification:	DB2 (toxic)
Canadian DSL:	All ingredients listed.

Australia

All components are listed on the AICS.
Product is classified as hazardous according to criteria of NOHSC Australia.

Contact Information:	ADAPT Australia Pty. Ltd. 11 - 19 Global Drive Tullamarine Victoria 3043 Telephone Number. 03 9330 0666 Emergency Telephone Number: 0421 277 889

16. OTHER INFORMATION

NFPA Ratings:	Health:	2
	Fire:	1
	Reactivity:	1

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

Revision Date: January 18, 2013
Revision Number: 2
Reviewed By: S. H. Dahlke

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

Supplier/Manufacturer:

American Polywater Corporation
11222 - 60th Street North
P.O. Box 53
Stillwater, MN 55082 USA
Phone: 1-651-430-2270
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Polywater Europe BV
Mauritsplaat 126
NL-3012CD Rotterdam
Netherlands
Tel: +31 10 233 0578

Emergency Number: +1-651-430-2270

Product Name: BonDuit®
Gel Hardener – BT
Part B Reusable Cartridge Package

Chemical Description: Hardener, Part B of two-part sealant

Product Use: Adhesive

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	EC #	Wt %
Polymercaptan Curing Agent	Proprietary	--	40 - 65
Polymer of C-18 Unsaturated Fatty Acid Dimers with TETA & TOFA	68082-29-1	500-191-5	10 - 15
2,4,6-Tris (Dimethylaminomethyl) Phenol	90-72-2	202-013-9	5 - 10
Polymer of C-18 Unsaturated Fatty Acid Dimers	68541-13-9	--	2 - 5
Triethylenetetramine	112-24-3	203-950-6	1 - 3

3. HAZARDS IDENTIFICATION

Emergency Overview: Skin and eye irritant. May cause allergic skin reaction. Keep out of reach of children. Industrial use only.

Eye Contact: Direct eye contact with material or vapors may cause severe eye irritation.

Skin Contact: May cause severe skin irritation, especially on prolonged contact. Prolonged or repeated skin exposure may cause skin sensitization.

Irritation and Sensitization Potential: This product has skin irritation potential. It is a sensitizer.

Inhalation (Breathing): Excess vapor exposure may cause irritation of the nose and throat. Prolonged exposure may cause delayed lung injury and chemical pneumonia.

Ingestion (Swallowing): Material is considered slightly toxic. Ingestion may cause irritation of the gastrointestinal tract, nausea, vomiting, and diarrhea.

4. FIRST AID MEASURES

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact:	Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.
Inhalation (Breathing):	If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.
Ingestion (Swallowing):	Drink one or two glasses of milk or water. Do not induce vomiting. If victim is unconscious, place on the left side with head down. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point:	>200°F PMCC
Flammable Limits:	Not Available
Autoignition Temperature:	Not Available
Hazardous Decomposition and By-Products:	Oxides of carbon, oxides of sulfur, oxides of nitrogen.
Extinguishing Media:	Water Fog, Carbon Dioxide, Dry Chemical or Foam.
Special Precautions:	Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.
Unusual Hazards:	Toxic smoke and vapors may form during combustion.

6. ACCIDENTAL RELEASE MEASURES

Major spill unlikely with small package. Residual resin may be removed using steam or hot soapy water. Dispose of according to local and federal regulations. Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

7. HANDLING AND STORAGE

Keep cartridge tightly closed. Reseal cartridge after use. Avoid contact with skin, eyes, or clothing. Uncured BonDuit® Hardener Part B is a skin irritant. Use good personal hygiene practice. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame operations (i.e. torches used to install heat shrink products) on or near cured product. Keep containers cool, dark, dry, and away from sources of ignition. All cartridges should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	None required for normal handling temperatures and conditions.
Protective Gloves:	The use of impermeable gloves is recommended to prevent skin contact.
Eye Protection:	Eye protection is recommended, especially if the material is used in ways where it could contact the eyes.
Other Protective Equipment:	Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white to yellow, thin paste.
Odor Threshold:	Not Available
Vapor Density (Air = 1):	Not Available
Specific Gravity (H_2O = 1):	<2
Solubility in Water:	Not Available
Boiling Point:	Not Available
Freezing Point:	Not Available
Evaporation Rate:	Not Available
Vapor Pressure:	<1 mm Hg @ 70°F
Coefficient of Water/Oil Distribution:	Not Available
pH:	Not Applicable
Volatiles (Weight %):	0%
VOC Content:	0 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid extreme heat and open flame.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Oxides of carbon, oxides of sulfur, oxides of nitrogen.
Conditions Under Which Hazardous Polymerization May Occur:	When Hardener (Part B) is mixed with Resin (Part A), heat is generated. Use caution if combining and mixing more than one cartridge.

11. TOXICOLOGICAL INFORMATION

Toxicity to Animals:	Polymercaptan Curing Agent	LD_{50} (oral rat) >2000 mg/kg
	Polymer of C-18 Unsaturated Fatty Acid Dimers with TETA & TOFA	LD_{50} (oral rat) >2000 mg/kg LD_{50} (dermal rabbit) >2000 mg/kg
	2,4,6-Tris (Dimethylaminomethyl) Phenol	LD_{50} (oral) >2000 mg/kg
Chronic Exposure:	Not Available	
Carcinogenic Status:	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.	

Reproductive Toxicity:	Not Available
Mutagenicity:	Not Available
Teratogenicity:	Not Available
Toxicologically Synergistic Products:	Not Available

12. ECOLOGICAL INFORMATION

Mobility:	No information available.
Bioaccumulation:	No information available.
Ecotoxicity:	No information available.

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with National and Local Regulations.

14. TRANSPORTATION INFORMATION

UN Number:	Not Listed
UN Proper Shipping Name:	Not Applicable
Class and Subsidiary Risk:	Not Applicable
Packing Group:	Not Applicable
TDG:	Not Regulated
ICAO/IATA-DGR:	Not Regulated
IMDG:	Not Regulated
ADR/RID:	Not Regulated

15. REGULATORY INFORMATION

USA Federal and State

All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting	**Acute**	**Chronic**	**Fire**	**Pressure**	**Reactive**
	Yes	No	No	No	No

Components	**CERCLA/SARA Sec 302 Hazardous Substance RQ**	**EHS TPQ**	**SARA Sec. 313 Toxic Release**
Components are not affected by these Superfund regulations.			

European Union

Product is classified as hazardous according to European Directives 88/379/EEC and 67/548/EEC and EU Regulation (EC) No 1272/2008.

Risk Phrases:	R43: May cause sensitization by skin contact.
Safety Phrases:	S2: Keep out of reach of children. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Xi: Irritant

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Classification:	DB2 (toxic)
Canadian DSL:	All ingredients listed.

Australia

All components are listed on the AICS.
Hazardous according to criteria of NOHSC Australia.

Contact Information:	ADAPT Australia Pty. Ltd. 11 - 19 Global Drive Tullamarine Victoria 3043 Telephone Number. 03 9330 0666 Emergency Telephone Number: 0421 277 889

16. OTHER INFORMATION

NFPA Ratings:	Health:	2
	Fire:	1
	Reactivity:	1

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

Revision Date: October 5, 2010
Revision Number: 1
Reviewed By: S.H Dahlke

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name:
Type HP™ Cleaner/Degreaser

Product ID numbers: HP-1, HP-1C, HP-1M,
HP-P158ID, HP-P158IDB, HP-P158IDC, HP-P158IDM, HP-3P158IDS,HP-6P158ID,
HP-P1K, HP-P63, HP-P63C
HP-D72, HP-D72C, HP-D72E,
HP-P31212, HP-P369,
HP-T369, HP-T369/S, HP-T369/SC, HP-T369/SH, HP-T369/S-D, HP-T369/S-DC

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Electrical cleaning

List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:

American Polywater Corporation
11222 - 60th Street North
P.O. Box 53
Stillwater, MN 55082 USA
Tel: 1-651-430-2270
Email: custserv@polywater.com

Polywater Europe BV
Mauritsplaat 126
NL-3012CD Rotterdam
Netherlands
Tel: +31 10 233 0578
Email: custserv@polywater.com

1.4 Emergency telephone numbers

USA
+1-651-430-2270

Europe
+31 10 233 0578

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to OSHA 29 CFR 1910.1200 and Regulation (EC) No 1272/2008.

Asp. Tox. 1 H304

2.2 Label elements



Pictograms:

Signal word: Danger

Hazard Statements:

H304 May be fatal if swallowed and enters airways

Precautionary Statements:

P102 Keep out of reach of children.
P210 Keep away from flames and hot surfaces. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.

P332 + P313	If skin irritation occurs: Get medical advice/attention
P370 + P378	In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local regulations.

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

Component	CAS #	EC #	Wt. %	GHS/CLP Classification
Medium Aliphatic Petroleum Solvent	64742-47-8	265-149-8	< 100 (< 30 gm/towel)	Asp. Tox. 1 H304; EUH066 Skin Irrit. 3 H316; Flam Liq 4 H227
Citrus Terpenes	94266-47-4	304-454-3	< 25 (< 5 gm/towel)	

4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

Ingestion (Swallowing): Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 for more information.

4.3 Indication of immediate medical attention and special treatment needed.

Aspiration hazard. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis.

5. Firefighting Measures

5.1 Extinguishing media:

Carbon dioxide, water fog, dry chemical or foam.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition and by-products:

Burning generates CO, CO_2 and smoke. Smoke may be acrid and fumes irritating.

5.3 Advice for firefighters

Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Use water spray to cool fire exposed containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Limited spill hazard with saturated towel package.

6.2 Environmental precautions:

Avoid release to the environment.

6.3 Methods materials for containment and cleaning up:

Collect towel and absorb any excess material with sand or absorbents.

6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors or spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2 Conditions for safe storage, including incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store away from acids and oxidizing agents.

7.3 Specific end uses

See technical data sheet on this product for further information.

8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits and recommendations:

Component Name	Limit	Standard	Source/Note
Medium Aliphatic Petroleum Solvent	100 ppm	ACGIH TWA	United States
Medium Aliphatic Petroleum Solvent	500 ppm	OSHA TWA	United States
Medium Aliphatic Petroleum Solvent	1200 mg/m3	RCP* TWA	ACGIH, Manufacturer

**reciprocal calculation procedure for total hydrocarbons*

8.2 Exposure controls

Respiratory protection:

Normal ventilation is adequate. Towelette limits solvent vapor exposure. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH-approved) or use supplied air equipment.

Protective gloves:

For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.

Eye protection:

None necessary. Wipe package eliminates splash hazard. Do not allow wipe/towel to directly contact eyes.

Other protective equipment:

It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. Physical and Chemical

9.1 Information of basic physical and chemical properties (bulk liquid)

Appearance:	Clear, colorless liquid with a very light citrus scent.
Odor threshold:	Not available
pH:	Does not apply
Freezing point:	<-58°F (<-50°C)
Boiling point:	365°F (185°C) Initial
Flash point:	>140°F (>60.5°C), Closed Cup (PMCC)
Evaporation rate:	<0.1 (n-butyl acetate = 1)

Flammability (solid, gas):	Not applicable to liquids
Upper/lower flammability or explosive limits:	LEL = 0.7% UEL = 6.1%-7.0%
Vapor pressure:	<1 mm Hg < 134 Pa @ 20°C
Vapor density (Air = 1):	> 1.0
Specific gravity (H_2O = 1):	0.79
Solubility in water:	Nil
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	150 – 550 cps. @ 10 rpm.

9.2 Other Information

Volatiles (Weight %):	100%
VOC Content:	790 g/l

10. Stability and Reactivity

10.1 Reactivity:

See remaining headings in Section 10.

10.2 Chemical stability:

Stable

10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid:

Avoid heat, flame, and sparks.

10.5 Incompatible materials :

Strong oxidizing agents.

10.6 Hazardous decomposition products:

Carbon dioxide, carbon monoxide.

11. Toxicological Information

11.1 Information on toxicological effects:
Acute toxicity

Eye contact:

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

Skin contact:

Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

Irritation and Sensitization Potential:

Product may be irritating to skin and eyes. It is not a sensitizer.

Inhalation (Breathing):

Concentrated petroleum solvent vapors may cause irritation of the nose and throat. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.

Ingestion:

Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

Toxicity to Animals:

Medium Aliphatic PetroleumSolvent:	LD_{50} (oral rat) >5000 mg/kg
	LD_{50} (dermal rabbit) >2000 mg/kg
	LC_{50} (inhl rat) >4.3mg/L, 4 hours
Citrus Terpenes:	LD_{50} (oral rat) >5000 mg/kg
	LD_{50} (dermal rabbit) 5000 mg/kg
	RD_{50} 1000 ppm

Aspiration hazard

May be fatal if swallowed and enters airways. Based on physico-chemical properties of the material.

Chronic Exposure:

Reproductive Toxicity:	Not available.
Mutagenicity:	Not available.
Teratogenicity:	Not available.
Specific Target Organ Toxicity (STOT)	No end point data.
Toxicologically Synergistic Products:	Not available.
Carcinogenic Status:	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.

12. Ecological Information

12.1 Toxicity:	
Ecotoxicity:	No information available.
Aquatic Toxicity:	No information available.
12.2 Persistence and degradability:	Expected to be biodegradable.
12.3 Bioaccumulation potential:	No information available
12.4 Mobility in soil:	No information available.
12.5 Results of PBT and vPvB Assessment:	This product is not, nor does it contain a substance that is a PBT or vPvB.
12.6 Other adverse effects:	None known.

13. Disposal Considerations

Dispose of product in accordance with National and Local Regulations.

14. Transport Information

UN Number:	Not Listed
UN Proper shipping name:	Not Applicable
Transport hazard class(es):	Not Applicable
Packing group:	Not Applicable
Environmental hazards:	None known
Special precautions:	None known
TDG:	Not Regulated
ICAO/IATA-DGR:	Not Regulated
IMDG:	Not Regulated
ADR/RID:	Not Regulated

15. Regulatory Information

USA Federal and State
All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting	Acute	Chronic	Fire	Pressure	Reactive
	No	No	Yes	No	No

Components	CERCLA/SARA Sec 302 Hazardous Substance RQ	CERCLA/SARA Sec 302 EHS TPQ	SARA Sec. 313 Toxic Release

Components are not affected by these Superfund regulations.

NFPA Ratings: Health: 1
Fire: 2
Reactivity: 0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

European Union
All components are listed on the European Inventory of Existing Chemical Substances (EINECS).
Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

Canada
All components are listed on the DSL inventory.
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Classification: B3

Australia
All components are listed on the AICS.
Hazardous according to criteria of NOHSC Australia. Product classified as harmful (Xn).

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16. Other Information

Revision Date: May 7, 2013
Revision Number: 2
Supersedes: May 13, 2010
Indication of Changes: Updated in accordance with the provisions of OSHA 1910.1200 App D and REACH Annex II (EU No 453/2010). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.