

ACETONE	TECHNICAL DATA SHEET	840
		<h1>SUNNYSIDE ACETONE</h1>

DESCRIPTION

Sunnyside Acetone is a very fast evaporating, extremely flammable solvent. It can be used to dissolve many natural and synthetic gums, waxes, oils and dyes. It will readily mix with water, alcohols, esters, ethers and other organic solvents.

ITEM NUMBERS & SIZES

<u>Pint</u>	<u>Quart</u>	<u>1-Gallon</u>	<u>2.5-Gal.</u>	<u>5-Gal.</u>	<u>55-Gal.</u>
84016	84032	840G1	840G3	840G5	84055

HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS#</u>	<u>Percent</u>
Acetone	67-64-1	100%

PHYSICAL PROPERTIES

<u>Typical Properties</u>	<u>Results</u>
GRAVITY, (60 °F)	
API	
SPECIFIC DENSITY (Lb./GAL)	0.792
DISTILLATION RANGE IBP °F	6.6
FREEZING POINT, °F (°C)	133
KAURI BUTANOL (Kb) VALUE	-139
ANILINE POINT, °F	
FLASH POINT, T.C.C. °F	0
FLAMMABLE LIMITS IN AIR, % BY VOLUME	
LOWER, AT 100°F (38°C)	2.6
UPPER, AT 200°F (93°C)	12.8
AUTOIGNITION TEMPERATURE, °F (°C)	869
COLOR (P t-Co) Max.	5
DOCTOR TEST	
CORROSION, 3 HRS. @ 212 °F	
NON-VOLATILES, g/100ml	
ACIDITY (as Acetic Acid)	0.002 max.
ALKALINITY (AS NH ₃ , WT%)	0.001 max.
EVAPORATION RATE	Slower than ether
APPEARANCE	Clear, water-white
ODOR	Characteristic, Nonresidual
VAPOR PRESSURE, mm Hg @ 20 °C	213
REFRACTIVE INDEX, @ 20 °C	
SULFUR CONTENT, PPM	
PURITY, by G.C., Wt%	99.5 Min.
WATER CONTENT, Wt%	0.5 Max.
WATER MISCIBILITY	Complete
DOT SHIPPING NAME	Acetone
DOT CLASSIFICATION	Hazard Class III
SHIPPING Wt. at 20 °C	6.6
V.O.C. (g/L)	0-Exempt

These properties are representative of typical inspections. They do not constitute product specifications. Consult MSDS sheet for additional information.

PRODUCT IMAGE**SAFETY INFORMATION**

<u>HEALTH:</u>	1
<u>FIRE:</u>	3
<u>REACTIVITY:</u>	0

PRODUCT APPLICATION

Acetone can be used for thinning epoxies, lacquers and adhesives, as well as polyester resins used in fiberglass boat and auto repairs. When cleaning application equipment or when using for any other purpose, prevent flammable vapor buildup by limiting amount used to a few ounces at a time.

TEST METHOD

<u>ASTM</u>	<u>Applied</u>
D-278	
D-1298	■
D-86	■
D-1133	
D-611	
D-56	■
D-1255	■
D-156	■
D-484	
D-130	
D-1353	
D-847	■
D-1614	
D-1296	■
D-1218	■
D-1266	
D-1364	
D-1722	

See MSDS sheet for additional Health, Safety, Handling and Regulatory Information available on our website at www.sunnysidecorp.com/msds.html

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 3/1/2007

(Prepared According to 29 CFR 1910.1200)

CODE: 9256

SECTION 1 - PRODUCT IDENTIFICATION				
Distributor Custom Solutions		Emergency Phone 800-309-5869		
Address 900 E. 103rd Street, Chicago, IL 60628		Prepared By: LPL		
Trade Name BRILLIANCE		Product Type Stainless Steel Polish		
SECTION 2 - INGREDIENTS				
CHEMICAL NAME/COMMON NAME	CAS NO.	WT. %(opt)	TLV(Source)	TITLE III, SECT. 313
Mineral Spirits	64741-65-7	25 - 30	100ppm(TWA)	NO
Isoparaffinic Solvent	64741-66-8	40 - 50%	400 ppm (TWA)	NO
1-Methyl-2Pyrrolidinone	872-50-4	<5%	100ppm (TWA)	YES
Mineral Oil	8042-47-5	15 - 20%	5mg/m3 (TWA as mist)	NO
Liquefied Petroleum Gas	68476-85-7	10%	1000ppm (TWA/PEL)	NO
SECTION 3 - PHYSICAL DATA				
Boiling point (°F.) NA	Specific Gravity (H2O=1.0) <1.0 ± 0.005		pH NA	
Vapor Pressure (mm Hg) 60psig@130F	Vapor Density (Air=1) >1			
Solubility in water	<input type="checkbox"/> Complete	<input type="checkbox"/> Insoluble	<input type="checkbox"/> Emulsifiable (or Dispersible)	<input checked="" type="checkbox"/> Slight (or Partial)
Evaporation Rate (vs. H2O) <input checked="" type="checkbox"/> Faster	<input type="checkbox"/> Slower	<input type="checkbox"/> About the Same	Appearance and Odor Clear with hydrocarbon odor.	
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA				
Flash Point (T.C.C.) <100F (Flammable) °F.	<input type="checkbox"/> None to Boiling	Flammable Limits Upper 9.2 Lower 1.8		
Extinguishing Media Carbon dioxide, foam and/or dry chemical may be used.				
Special Firefighting Procedures Containers should be cooled with water to prevent vapor pressure build up.				
Unusual Fire and Explosion Hazards At elevated temperatures (over 54C-130F) containers may vent or burst.				
SECTION 5 - REACTIVITY DATA				
Stability Stable	Incompatibility Oxidizing agents			
Hazardous Decomposition Products Oxides of carbon.				
SECTION 6 - HEALTH HAZARD DATA				
Primary Routes of Exposure	<input checked="" type="checkbox"/> Eye	<input checked="" type="checkbox"/> Skin	<input checked="" type="checkbox"/> Oral	<input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Other
Signs and Symptoms Of Overexposure (Acute)	High vapor concentrations may result in central nervous system depression and evidenced by giddiness, headache and nausea. Ingestion may result in vomiting. Prolonged or repeated skin contact can result in drying and defatting of skin. Moderate eye irritant.			
Signs and Symptoms of Overexposure (Chronic)	None currently known.			
Medical Conditions Aggravated by Overexposure	Pre-existing skin or eye disorders may be aggravated by exposure to this product.			
Carcinogen or Suspect Carcinogen Ingredients	<input type="checkbox"/> NTP	<input type="checkbox"/> IARC	<input type="checkbox"/> OSHA	<input checked="" type="checkbox"/> NONE
SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES				
Eyes	Flush eyes with water for at least 15 minutes and call a physician immediately.			
Skin	Wash affected areas with large amounts of soap and water. If irritation persists call physician.			
Ingestion	Do not induce vomiting. Contact local poison control center or physician immediately.			
Inhalation	Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.			
SECTION 8 - SPECIAL PROTECTION INFORMATION				
Respiratory Protection	Not required under normal use conditions with good general ventilation. Protect against generated mists/sprayback.			
Ventilation Requirements	<input type="checkbox"/> Local Exhaust	<input checked="" type="checkbox"/> Mechanical	<input type="checkbox"/> Other	Eye Protection Safety Glasses/Goggles
Protective Gloves Rubber/PVC	Other Protective Clothing Protective clothing appropriate to minimize contact during specific operations.			
SECTION 9 - SPILL OR LEAK PROCEDURES				
Steps To Be Taken If Released or	Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent and place into a designated disposal container.			
Waste Disposal Methods	When contents depleted, depress button until all gas is expelled. Dispose of container according to Federal, State and local regulations.			
SECTION 10 - STORAGE AND HANDLING INFORMATION				
Precautions to be Taken In Handling and Storage	Avoid breathing vapor. Keep away from heat and flame. Use with adequate ventilation. Do not expose to direct sunlight or store at temperatures above 130F (54C). Do not puncture or incinerate containers. Store as Level 3 Aerosol (NFPA 30B)			

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

HMIS
HAZARD
RATING

HEALTH	2
FLAMMABILITY	4
REACTIVITY	0
PERSONAL PROTECTION	B

0 - LEAST
1 - SLIGHT
2 - MODERATE
3 - HIGH
4 - EXTREME

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name C6 Epoxy Adhesive
Version # 01
Revision date 06-09-2010
CAS # Mixture
Product Code C6
Product use Concrete anchoring adhesive.
Manufacturer/Supplier ITW Red Head
2171 Executive Drive, Suite 100
Addison, IL 60101 US
Telephone Number: (630) 350-0370
Contact Person: Andrew Rourke
Emergency CHEMTREC: (800) 424-9300

2. Hazards Identification

Physical state Liquid.
Appearance Paste.
Emergency overview DANGER!

Causes skin and eye burns. Causes severe respiratory tract irritation. Harmful if absorbed through skin or swallowed. May cause sensitization by skin contact. Prolonged exposure may cause chronic effects.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Causes eye burns. Risk of corneal damage. Contact may cause irritation, redness, tearing, blurred vision and/or burns.

Skin Causes skin burns. Harmful if absorbed through the skin. May cause sensitization by skin contact. Contact may cause irritation, redness and/or drying.

Inhalation Causes severe respiratory tract irritation. Vapors irritate the respiratory system, and may cause coughing and difficulties in breathing.

Ingestion Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Target organs Eyes. Skin. Respiratory system. Lungs.

Chronic effects Overexposure can cause lung damage - pulmonary toxin.

Potential environmental effects The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Bisphenol A Diglycidyl Ether Resin (Part A)	25068-38-6	60 - 80
Mercaptan/Amine Polymer Blend (Part B)	Trade Secret	20 - 40
2,4,6-Tris(dimethylaminomethyl) Phenol (Part B)	90-72-2	Trade Secret
Isopropanol (Part B)	67-63-0	Trade Secret

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

Notes to physician Keep victim under observation. In case of shortness of breath, give oxygen. Symptoms may be delayed.

General advice Take off contaminated clothing and shoes immediately. 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. Wash contaminated clothing before re-use.

5. Fire Fighting Measures

Flammable properties Not flammable by OSHA criteria. Material may burn but not ignite readily.

Extinguishing media

Suitable extinguishing media Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Protection of firefighters

Protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause environmental damage.

Special protective equipment for fire-fighters Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Specific methods In the event of fire and/or explosion do not breathe fumes.

Hazardous combustion products Carbon monoxide. Carbon Dioxide. Nitrogen oxides (NO_x). Hydrogen chloride. Sulfur oxides.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Collect spillage. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. Should not be released into the environment.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Wear personal protective equipment. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged exposure. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment.

Storage Keep container tightly closed. For maximum shelf life, store between 4.4°C (40°F) to 26.7°C (80°F). Do not store above 43.3°C (110°F). Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components

Components	Type	Value
Isopropanol (Part B) (67-63-0)	STEL	400 ppm
	TWA	200 ppm

U.S. - OSHA**Components**

	Type	Value
Isopropanol (Part B) (67-63-0)	PEL	400 ppm 980 mg/m3

Canada - Alberta**Components**

	Type	Value
Isopropanol (Part B) (67-63-0)	STEL	984 mg/m3
		400 ppm
	TWA	492 mg/m3 200 ppm

Canada - British Columbia**Components**

	Type	Value
Isopropanol (Part B) (67-63-0)	STEL	400 ppm
	TWA	200 ppm

Canada - Ontario**Components**

	Type	Value
Isopropanol (Part B) (67-63-0)	STEL	400 ppm
	TWA	200 ppm

Canada - Quebec**Components**

	Type	Value
Isopropanol (Part B) (67-63-0)	STEL	1230 mg/m3
		500 ppm
	TWA	983 mg/m3 400 ppm

Mexico**Components**

	Type	Value
Isopropanol (Part B) (67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3 400 ppm

Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment**Eye / face protection**

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

General hygiene considerations

Avoid contact with eyes. Avoid contact with skin. Provide eyewash station and safety shower. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties**Appearance**

Paste.

Color

Gray/white.

Odor

Characteristic.

Odor threshold

Not available.

Physical state

Liquid.

Form

Liquid. Paste.

pH

Not available.

Melting point

Not available.

Freezing point

Not available.

Boiling point

> 500 °F (> 260 °C) Part A

Flash point

> 200 °F (> 93.3 °C)

Evaporation rate

Not available.

Flammability

Not available.

Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Solubility (water)	None.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Density	1.3 g/cm ³ Part A 1.7 g/cm ³ Part B

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Elevated temperatures.
Incompatible materials	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NO _x). Sulfur oxides. Hydrogen chloride.
Possibility of hazardous reactions	Will not occur by itself. More than 1 pound of the Part B material added to epoxy resins will cause irreversible polymerization with considerable heat build-up.

11. Toxicological Information

Toxicological data

Components

	Test Results
Isopropanol (Part B) (67-63-0)	Acute Dermal LD50 Rabbit: 5030 - 7900 mg/kg Acute Oral LD50 Rat: 4700 - 5800 mg/kg
Mercaptan/Amine Polymer Blend (Part B) (Trade Secret)	Acute Dermal LD50 Rabbit: > 10000 mg/kg Acute Oral LD50 Rat: > 3000 mg/kg

Local effects	Causes skin and eye burns. Causes severe respiratory tract irritation. Harmful in contact with skin and if swallowed. May cause sensitization by skin contact.
Sensitization	May cause an allergic skin reaction.
Chronic effects	Overexposure can cause lung damage.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
ACGIH Carcinogens	
Isopropanol (Part B) (CAS 67-63-0)	A4 Not classifiable as a human carcinogen.
Epidemiology	This product is not reported to cause epidemiological effects in humans.
Mutagenicity	This product is not expected to cause mutagenic or genotoxic effects.
Neurological effects	Not available.
Reproductive effects	Isopropyl alcohol has demonstrated animal effects of reproductive toxicity.
Teratogenicity	Isopropyl alcohol has demonstrated animal effects of teratogenicity.
Further information	Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data

Components

	Test Results
Isopropanol (Part B) (67-63-0)	LC50 Bluegill (<i>Lepomis macrochirus</i>): > 1400 mg/l 96 hours

Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.
Environmental effects	The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability	Not available.

Bioaccumulation / Accumulation	No data available.
Partition coefficient (n-octanol/water)	Not available.
Mobility in environmental media	No data available.

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not contaminate ponds, waterways or ditches with chemical or used container.

14. Transport Information

Product Specific Note: This product meets the limited quantities exception requirements for the below listed transportation agencies. Under DOT and TDG regulations, this product may be reclassified as a Consumer Commodity (ORM-D). Please see the specific regulations for the shipping and packaging requirements.

DOT

Basic shipping requirements:

Proper shipping name	Consumer commodity
Hazard class	ORM-D
Subsidiary hazard class	None
Labels required	None

Additional information:

Packaging exceptions	156, 306
Packaging non bulk	156, 306
Packaging bulk	None

IATA

Basic shipping requirements:

UN number	2735
Proper shipping name	Amines, liquid, corrosive, n.o.s. (2,4,6-Tris(dimethylaminomethyl) Phenol (Part B))
Hazard class	8
Packing group	III

IMDG

Basic shipping requirements:

UN number	2735
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethylaminomethyl) Phenol (Part B))
Hazard class	8
Packing group	III
EmS No.	F-A, S-B

TDG

Basic shipping requirements:

Proper shipping name	Consumer commodity
Hazard class	ORM-D
Subsidiary hazard class	None
Labels required	None

Additional information:

Packaging exceptions	156, 306
Packaging non bulk	156, 306
Packaging bulk	None



IATA



IMDG

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Isopropanol (Part B) (CAS 67-63-0) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Isopropanol (Part B) (CAS 67-63-0) Listed.

CERCLA (Superfund) reportable quantity (lbs)

Isopropanol (Part B) 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

Drug Enforcement Agency (DEA)

Not controlled

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status

Controlled

WHMIS classification

D2B - Other Toxic Effects-TOXIC
E - Corrosive

WHMIS labeling



Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Isopropanol (Part B) (CAS 67-63-0) Listed.

US - Massachusetts RTK - Substance: Listed substance

Isopropanol (Part B) (CAS 67-63-0) Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

Isopropanol (Part B) (CAS 67-63-0) 500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Isopropanol (Part B) (CAS 67-63-0) Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 2*
Flammability: 1
Physical hazard: 1

NFPA ratings Health: 2
Flammability: 1
Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

Issue date 06-09-2010

MATERIAL SAFETY DATA SHEET

Product name: RSE DOT
Description: High strength adhesive for anchoring and doweling in concrete.
Supplier: Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121
Emergency # (Chem-Trec.): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	TLV: (mg/m ³)	PEL: (mg/m ³)	STEL:
Part A: Diglycidyl Ether of Bisphenol A	25085-99-8	NE	NE	NE
Ethylene Glycol	107-21-1	C: 100	C: 50	NE
Silica, quartz	14808-60-7	0.05 R	R: <u>10 mg/m³</u> %SiO ₂ + 2	NE
Part B: 1-Aminoethylpiperazine	140-31-8	NE	NE	NE
Nonylphenol	84852-15-3	NE	NE	NE
Liquid Polyamide Resin	68082-29-1	NE	NE	NE
2,4,6-trisdimethylaminomethyl-phenol	90-72-2	NE	NE	NE
Silica, quartz	14808-60-7	0.05 R	R: <u>10 mg/m³</u> %SiO ₂ + 2	NE
Benzyl Alcohol	100-51-6	NE	NE	NE

Abbreviations: C = Ceiling. NE = None Established. NA = Not Applicable. R = "respirable" fraction.

PHYSICAL DATA

Appearance:	A: White paste B: Black paste.	Odor:	Slight amine odor.
Vapor Density: (air = 1)	Not determined.	Vapor Pressure:	Not determined.
Boiling Point:	Not determined.	VOC Content:	3.53 g/l (mixed).
Evaporation Rate:	Not determined.	Solubility in Water:	Insoluble .
Specific Gravity:	Part A: 1.1 g/cc Part B: 0.9 g/cc	pH:	Not determined.

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	> 200° F	Flammable Limits:	Not applicable.
Extinguishing Media:	CO ₂ , Dry Chemical, Foam, Water Spray.		
Special Fire Fighting Procedures:	A self-contained breathing apparatus should be worn when fighting fires involving chemicals.		
Unusual Fire and Explosion Hazards:	None known. Thermal decomposition products can be formed including CO _x and NO _x .		

REACTIVITY DATA

Stability:	Stable.	Hazardous Polymerization:	Will not occur.
Incompatibility:	Strong acids, peroxides, and other oxidizing agents.		
Decomposition Products:	Thermal decomposition can yield CO _x and NO _x .		
Conditions to Avoid:	Avoid temperature extremes that could shorten the shelf-life of this product. (See handling and storage requirements for recommended storage temperatures).		

HEALTH HAZARD DATA

Known Hazards:	Part A: Eye and skin irritation. Sensitizer. Part B: Corrosive		
Signs and Symptoms of Exposure:	Part A: Can be irritating to the eyes and skin, Corneal injury is not expected. Can cause skin sensitization with some individuals (itching, redness, swelling). Inhalation-No ill effects expected.		

Routes of Exposure:	Heated vapors can cause irritation. Part B: Can cause eye and skin burns. Inhalation-No ill effects expected. Heated vapors can cause irritation.
Carcinogenicity:	IARC classifies crystalline silica (quartz sand) as a Group I carcinogen based upon evidence among workers in industries where there has been long-term and chronic exposure (via inhalation) to silica dust; e.g. mining, quarry, stone crushing, refractory brick and pottery workers. This product does not pose a dust hazard; therefore, this classification is not relevant.
Medical Conditions Aggravated by Exposure:	Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush immediately with water for at least 15 minutes. Contact a Physician.
Skin:	Wash immediately with soap and water. Launder contaminated clothing before reuse.
Inhalation:	If symptoms occur, move to fresh air. Contact a physician if symptoms persist.
Ingestion:	Contact a Physician immediately. Do not induce vomiting unless directed by a Physician.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	Safety glasses with side shields.
Skin Protection:	Impermeable gloves recommended.
Respiratory Protection:	None normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges. If dusts are generated during demolition or removal, wear an appropriate dust mask or respirator.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	For industrial use only. Keep away from children. Use with adequate ventilation. Avoid prolonged inhalation of vapors. Avoid contact with the eyes, skin, or clothing. Practice good hygiene; i.e. wash after using and before eating or smoking. Store in a cool dry area between 41° and 77° F (5 - 25° C). Keep from freezing. Do not store in direct sunlight.
Spill Procedures:	Take up with an absorbent material and place in a container for proper disposal.

REGULATORY INFORMATION

Hazard Communication:	This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
HMIS Codes:	Health 3, Flammability 1, Reactivity 0, PPE B
DOT Shipping Name:	Consumer commodity, ORM-D
IATA / ICAO Shipping Name:	Corrosive solids, n.o.s. (n-aminoethylpiperazine, nonyl phenol), UN1759, Class 8, PGIII
TSCA Inventory Status:	Chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product contains 0-2% ethylene glycol which is subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
EPA Waste Code(s):	Not regulated by EPA as a hazardous waste
Waste Disposal Methods:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

CONTACTS

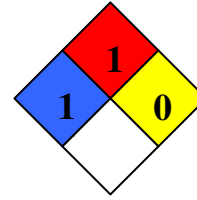
Customer Service:	1 800 879 8000	Technical Service:	1 800 879 8000
Health / Safety:	1 800 879 6000	Jerry Metcalf	(x6704)
Emergency # (Chem-Trec):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)		

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.

MATERIAL SAFETY DATA SHEET

1. Identification of the material and supplier

Product name CLC COOLANT 2240 A
Product use Coolant
Supplier CLC Lubricants
0N902 Old Kirk Road
PO Box 764
Geneva, IL 60134
630-232-7900



Emergency
Phone : 1-800-535-5053
Infotrac

HMIS:
Health= 1 Reactivity= 0
Fire= 1 Special=none

2. Hazards identification

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

This product is not formulated to contain ingredients that have exposure limits exceeding those established by US agencies *See Section 8 for exposure limits.

Keep out of reach of children.

Eyes: May cause eye burns

Skin: May cause severe irritation

Ingestion: Harmful, damaging to mucous membranes

Inhalation: Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

Not a sensitizer.

3. Composition/ information on ingredients

Ingredient	CAS#	%
Alkanolamines	May be one of the following: 102-71-6 124-68-5 27646-80-6 929-06-6 141-43-5 78-96-6 110-97-4	<30

Non-hazardous ingredients are treated confidentially.

4. First-aid measures

Eyes	If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.
Skin	Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged but symptoms persist, seek medical attention. Launder clothing before reuse.
Ingestion	Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact physician, medical facility, or poison control center for advice about whether to induce vomiting. Do not leave individual unattended.
Inhalation	If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention.

5. Fire-fighting measures

Flash point	Will not flash
Extenuishing media	Carbon dioxide, dry chemical
Protection of fire-fighters	Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Methods and materials for containment and cleanup Dike to contain spill, cover with inert absorbent material, sweep up and place in a suitable container. Flush area well with water. Keep spills and cleaning run-off out of municipal sewers and bodies of water

7. Handling and storage

HANDLING: Keep containers closed. Avoid contact with eyes, skin or clothing. Wash hands after handling.

Empty container may retain product residue which may exhibit hazards of product.

8. Exposure controls/personal protection

Alkanolamines TLV- 5 mg/M3 OSHA/ACGIH

Personal protective equipment

Respiratory system	None required; however, use of adequate ventilation is good industrial practice.
Hands	Wear suitable gloves
Skin and body	Avoid contact with skin clothing. Wear suitable protective clothing.
Eyes	Safety glasses with side shields.

9. Physical and chemical properties

Physical state	Liquid
Color	Clear blue
Boiling point	>212°F
Freezing point	<32°F
pH (concentrated)	9-11
Solubility in water	Complete
Specific Gravity	1.029
Density	8.56 lbs/gal

10. Stability and reactivity

Stability	Stable under normal conditions
Incompatibility with various substances/hazardous reactions	Avoid acids, acetone, aldehydes, aluminum, copper, halogenated hydrocarbons, ketones, strong alkalis, strong oxidizing agents, metals, organic anhydrides, organic halides.
Hazardous polymerization	Will not occur
Decomposition products	Oxides of Carbon, sulfur, and nitrogen

11. Toxicological information

For Alkanolamines:

Oral LD50, Rat: 2000-4000 mg/kg

Dermal LD50, Rabbit: >2000 mg/kg

Not a sensitizer

Not a carcinogen

Not mutagenic

12. Ecological information

For Alkanolamines:

Bacterial Toxicity EC50= 132 ppm

Acute Fish Toxicity, Bluegill Sunfish, 96 h LC50= 190 mg/l

Acute Fish Toxicity, Plaice, 96 h LC 50= 180 mg/l

Acute Toxicity, Daphnia magna, 48 h LC50= 193 mg/l

Acute Toxicity, Brown Shrimp, 96 h LC50= 179 mg/l

Bacterial Toxicity, Pseudomonas putida, EC10= 50 mg/l

LC50, Pimephales promelas, static, 96 h: 580 mg/l

EC50, alga Scenedesmus sp., 72 h: 270 mg/l

13. Disposal information

Materials contaminated must be disposed to a permitted hazardous waste management facility in accordance with the Clean Air and Clean Water Acts, Resources Conservation and Recovery Act, and all relevant laws or regulations regarding disposal. If it can be determined that spilled material and absorbent do not meet hazardous waste criteria, disposal may not be regulated.

14. Transport information

This product is not classified as hazardous material for DOT shipping.

Hazard class	None
DOT shipping name	Mixture
UN number	None
NA number	None

15. Regulatory information

SARA TITLE III SECTION 313: Not applicable

SARA 311/312: Acute Health Hazard

The chemical ingredients in this product are on the 8(b) TSCA Inventory Lists (40 CFR 710) or exempt.

16. Other information

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. CLC Lubricants shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **LORD ACCELERATOR 19**
Product Use/Class: **ACRYLIC ADHESIVE, PART 2 OF 2**

LORD CORPORATION
111 LORD DRIVE
CARY, NC 27511-7923

TRANSPORTATION EMERGENCY:
CHEMTREC 24 HR EMERGENCY NO.
800 424-9300
(Outside Continental U.S. 703 527-3887)

INFORMATION TELEPHONE:
814 868-0924

NON-TRANSPORTATION EMERGENCY:
814 763-2345

EFFECTIVE DATE: 02/10/2011

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight % Less Than</u>	<u>ACGIH TLV- TWA</u>	<u>ACGIH TLV- STEL</u>	<u>OSHA PEL- TWA</u>	<u>OSHA PEL- CEILING</u>	<u>Skin</u>
Epoxy resin	PROPRIETARY	55.0 %	N.E.	N.E.	N.E.	N.E.	N.A.
Isodecyl benzoate	131298-44-7	5.0 %	N.E.	N.E.	N.E.	N.E.	N.A.
Benzoyl peroxide	94-36-0	5.0 %	5 mg/m3	N.E.	5 mg/m3	N.E.	N.A.

N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW ***:** Off-white Viscous liquid, with Odorless odor. May cause skin and eye irritation. May cause allergic skin reaction. May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause allergic skin reaction. May cause skin irritation. May cause skin sensitization.

EFFECTS OF OVEREXPOSURE - INHALATION: May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Prolonged or repeated contact may result in dermatitis.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Skin Contact, Ingestion, Inhalation

4. FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

FIRST AID - SKIN CONTACT: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. Give victim one or two glasses of water or milk. Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

5. FIRE-FIGHTING MEASURES

FLASH POINT: 201 °F, 93 °C
Setaflash Closed Cup

LOWER EXPLOSIVE LIMIT (%): Not Applicable
UPPER EXPLOSIVE LIMIT (%): Not Applicable

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid breathing vapors. Notify appropriate authorities if necessary. Avoid contact. Use appropriate respiratory protection for large spills or spills in confined area. Keep non-essential personnel away from spill area. Scoop spilled material into an appropriate container for proper disposal. (If necessary, use inert absorbent material to aid in containing the spill).

7. HANDLING AND STORAGE

HANDLING: Keep closure tight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation.

STORAGE: Store only in well-ventilated areas. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

RESPIRATORY PROTECTION: Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

SKIN PROTECTION: Use neoprene, nitrile, or rubber gloves to prevent skin contact.

EYE PROTECTION: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR:	Odorless	BOILING RANGE:	100 °C
APPEARANCE:	Off-white	VAPOR PRESSURE:	N.D.
PHYSICAL STATE:	Viscous liquid	VAPOR DENSITY:	Heavier than Air
ODOR THRESHOLD:	N.D.	EVAPORATION RATE:	Not Applicable
SOLUBILITY IN H2O:	Insoluble	DENSITY, LB/GL:	12.75 lb/gal
pH:	N.A.	VOLATILE BY WEIGHT:	0.92 %
FREEZE POINT:	N.D.	VOLATILE BY VOLUME:	1.42 %
COEFFICIENT OF WATER/OIL DISTRIBUTION:	N.D.		

(See section 16 for abbreviation legend)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY: Amines, acids, water, hydroxyl, or active hydrogen compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

STABILITY: Product is stable under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

PRODUCT LD50	(ORAL)	No Data
	(DERMAL)	No Data
PRODUCT LC50		No Data

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), state and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

14. TRANSPORT INFORMATION

This product is NOT REGULATED for non-bulk road shipments. For the most accurate shipping information, refer to your transportation/compliance department regarding changes in package size, mode of shipment or other regulatory descriptors.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

This product is considered hazardous as defined by 29 CFR 1910.1200 (OSHA HazCom Standard.)

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.

:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight % Less Than</u>
Benzoyl peroxide	94-36-0	5.0 %

TOXIC SUBSTANCES CONTROL ACT:

INVENTORY STATUS

The chemical substances in this product are on the TSCA Section 8 Inventory.

EXPORT NOTIFICATION

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

NONE

16. OTHER INFORMATION

HMS RATINGS - HEALTH: 2 FLAMMABILITY: 1 PHYSICAL HAZARD: 1

* - Indicates a chronic hazard; see Section 3

VOLATILE ORGANIC COMPOUNDS

Calculated: 0 lb/gal, 0 g/l

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DISCLAIMER

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

MATERIAL SAFETY DATA SHEET

U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200

The Steco Corporation
2330 Cantrell Road
P.O. Box 2238
Little Rock, AR 72203

Emergency Response: (800) 255-3924
Information: (800) 643-8026
Fax: (501) 374-4278
Date Reviewed: **August 15, 2011**

TRADE NAME	TAP MAGIC PROTAP Cutting Fluid
CHEMICAL NAME & SYNONYMS	Hydrocarbon Mixture
DOT SHIPPING NAME	Not a Regulated Material
IATA SHIPPING NAME	No hazard label required, no limit on quantity
HMIS/NFPA CODE	Health 0; Fire 1; Reactivity 0
MANUFACTURING CODE NO.:	8358
COMMODITY CODE NO.:	332-9150

I. HAZARDOUS INGREDIENTS

This product contains no toxic or hazardous ingredients by OSHA criteria; however, as with any chemical product, exposure to liquids, vapors, mists and fumes should be minimized.

II. INGREDIENTS

Aliphatic Organic Acid	:	CAS# 112-80-1	>75% mixture
Aliphatic Organic Ester	:	CAS# 112-62-9	<15% mixture
Organic Polyol	:	CAS# None Assigned	<10% mixture

III. PHYSICAL DATA

BOILING RANGE, (760 mm Mercury)	:	680 to 1000° F
SPECIFIC GRAVITY (Water = 1) (lbs/gal)	:	(0.894) 7.46 lbs/gal
VAPOR PRESSURE (mm of Mercury) @ 75° F	:	Less Than 1
VAPOR DENSITY (Air = 1)	:	Greater Than 5
SOLUBILITY IN WATER, % by weight	:	Less Than 1 (Insoluble)
EVAPORATION RATE (Butyl Acetate = 1)	:	Less Than 0.01
% VOLATILE BY VOLUME @ 75° F	:	Less Than 1
APPEARANCE	:	Yellow Liquid
ODOR	:	Pleasant
pH	:	Nonaqueous

IV. FIRE & EXPLOSION DATA

LOWER FLAMMABLE LIMIT IN AIR (% by Volume)	:	1.0
UPPER FLAMMABLE LIMIT IN AIR (% by Volume)	:	15
FLASH POINT, PMCC	:	370° F
AUTOIGNITION TEMPERATURE	:	685° F
EXTINGUISHING MEDIA	:	Foam, Carbon Dioxide, Dry Chemical

V. HEALTH HAZARD INFORMATION

ROUTES OF ENTRY	:	Ingestion is the primary method of possible entry.
EFFECTS OF ACUTE OVEREXPOSURE:		INHALATION: (Unlikely due to low vapor pressure). Mist may cause headache, nasal, respiratory and eye irritation. INGESTION: Headache, drowsiness, nausea, fatigue. EYES: May cause pain and irritation.

EFFECTS OF CHRONIC OVEREXPOSURE: **SKIN CONTACT:** Prolonged or repeated exposure may cause irritation.

CARCINOGENICITY : Not a carcinogen or suspect carcinogen.

EMERGENCY AND FIRST AID PROCEDURES:**EYE:** Flush eyes gently with water for at least 15 minutes. Supportive treatment is recommended.

SKIN: Wash with mild soap and water. Remove wetted clothing.

INHALATION: Remove to fresh air.

INGESTION: Do not induce vomiting. Call a physician and/or transport to emergency medical facility.

VI. REACTIVITY DATA

Materials such as sawdust or cloth rags which have been wetted with lubricant may be subject to spontaneous combustion during storage.

VII. DISPOSAL, SPILL OR LEAK PROCEDURES

AQUATIC TOXICITY : Aquatic toxicity is low: Product is not soluble in water. Biodegradable.

SPILL OR LEAK PROCEDURES: Absorb with inert materials. Remove to out of doors and incinerate.

WASTE DISPOSAL METHOD : PROTAP contains no environmentally hazardous substances. Small amounts may be incinerated in compliance with local, state and federal regulations. The recommended method of disposal for large quantities is recycling by a reclaimer or incineration. "If inert absorbents are employed in spill containment or cleanup, these absorbents must be non-biodegradable materials if destined for landfill disposal. Suitable absorbents include natural minerals (clay), activated charcoal, man-made polymers (HD polyethylene)."

VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Standard eye protection should be worn when using this product.

SKIN PROTECTION: No special protection is needed. However, good personal hygiene practices should be followed.

RESPIRATORY: If application to which this product is being applied generates excessive mist or fumes, then appropriate respiratory protective equipment should be used. No special requirements under ordinary condition and use and proper ventilation of work area.

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

IX. SPECIAL PRECAUTIONS

Product is ignitable, keep away from open flames. Do not expose to ignition sources. Do not store with strong oxidizers such as nitrates or perchlorates or oxygen under pressure. May cause swelling of some plastics and synthetic rubbers.

X. ADDITIONAL INFORMATION

Tap Magic PROTAP DOES NOT CONTAIN 1,1,1-trichloroethane or any ozone depleting substances. PROTAP does not contain chlorine, phosphorous, active sulfur, nitrates, nitrite derivatives, amines, polynuclear aromatic compounds either as ingredients or trace contaminants. Shelf life is indefinite at ambient temperatures and left in original containers.

Tap Magic PROTAP does not contain any chemical compound listed on the SARA list of 'Extremely Hazardous Chemicals', and is in compliance with all of the requirements of the TSCA at the time of shipment.

Caution: Any cutting fluid can be "overworked" or "overheated", causing it to break down. This overuse is identified by the sight of or strong odor of vapors or fumes not normally present. The effects of these vapors or fumes on human health have not been fully determined. After use of this product, clean and lubricate

metal surfaces to avoid staining and/or corrosion.

By: Asa L. Morton, Chief Chemist, American Interplex Corporation, Little Rock, AR 72204, (501) 224-5060



Revision Number: 002.1

Issue date: 03/12/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 495 Super Bonder® Instant Adhesive **IDH number:** 135467
Product type: Cyanoacrylate **Item number:** 49550
Region: United States
Company address: **Contact information:**
 Henkel Corporation Telephone: 860.571.5100
 One Henkel Way Emergency telephone: 860.571.5100
 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid	HEALTH: 2
Color: Colorless to light yellow	FLAMMABILITY: 2
Odor: Irritating	PHYSICAL HAZARD: 1
	Personal Protection: See MSDS Section 8

HMS:

WARNING: COMBUSTIBLE LIQUID AND VAPOR.
 MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.
 BONDS SKIN IN SECONDS.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.

Skin contact: Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin. Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare.

Eye contact: Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Ingestion: Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100
Thickener	Proprietary	1 - 5

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:	Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage.
Ingestion:	Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.
Notes to physician:	Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

5. FIRE FIGHTING MEASURES

Flash point:	80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup
Autoignition temperature:	485 °C (905°F)
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Extinguishing media:	Water spray or fog. Dry powder. Carbon dioxide. Foam.
Special firefighting procedures:	Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Ventilate area. Do not allow product to enter sewer or waterways.
Clean-up methods:	Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.
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Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.
Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None
Thickener	None	None	None	None

Engineering controls: Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection: Observe OSHA regulations for respiratory use (29 CFR 1910.134). Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Colorless to light yellow
Odor: Irritating
Odor threshold: 1 - 2 ppm
pH: Not applicable
Vapor pressure: < 0.2 mm hg
Boiling point/range: > 300 °F (> 148.9 °C)
Melting point/ range: Not determined
Specific gravity: 1.1 at 75 °F (23.89 °C)
Vapor density: 3 Approximately
Flash point: 80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup
Flammable/Explosive limits - lower: Not determined
Flammable/Explosive limits - upper: Not determined
Autoignition temperature: 485 °C (905°F)
Evaporation rate: Not available
Solubility in water: Polymerises in presence of water.
Solubility in water: Miscible
Partition coefficient (n-octanol/water): Not applicable
VOC content: < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Hazardous reactions: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

Hazardous decomposition products: None

Incompatible materials: Water, amines, alkalis and alcohols.

Conditions to avoid: Spontaneous polymerization.

11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg (Estimated)

Acute dermal product toxicity: LD50 (rabbit) > 2,000 mg/kg (Estimated)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Thickener	No	No	No

Hazardous components	Health Effects/Target Organs
Ethyl 2-cyanoacrylate	Irritant, Allergen, Respiratory
Thickener	Irritant

12. ECOLOGICAL INFORMATION

Ecological information: Not known.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Combustible liquid, n.o.s. (Cyanoacrylate ester)
Hazard class or division: Combustible Liquid
Identification number: NA 1993
Packing group: III
Exceptions: (Not more than 450 Liters), Unrestricted

International Air Transportation (ICAO/IATA)

Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
Hazard class or division: 9
Identification number: UN 3334
Packing group: None
Exceptions: Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification: None above reporting de minimus
CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Reactive, Immediate Health, Fire, Delayed Health
CERCLA/SARA 313: None above reporting de minimus
California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

WHMIS hazard class:

B.3, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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