



Revision Number: 002.1

Issue date: 03/29/2010

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Water Proofing Solution  
**Product type:** Coating

**IDH number:** 135538  
**Item number:** 74126  
**Region:** United States

**Company address:**  
 Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**Contact information:**  
 Telephone: 860.571.5100  
 Emergency telephone: 860.571.5100  
 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b>	Liquid	<b>HMIS:</b>	
<b>Color:</b>	Black	<b>HEALTH:</b>	*2
<b>Odor:</b>	Sweet	<b>FLAMMABILITY:</b>	3
		<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8
<b>WARNING:</b>	FLAMMABLE LIQUID AND VAPOR. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED OR INHALED. CAUSES EYE AND SKIN IRRITATION.		

**Relevant routes of exposure:** Ingestion, Skin, Inhalation, Eyes

### Potential Health Effects

**Inhalation:** May cause central nervous system effects with nausea, dizziness and headache.  
**Skin contact:** May be harmful if absorbed through skin. Moderate skin irritation.  
**Eye contact:** Contact with eyes will cause irritation.  
**Ingestion:** Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. Aspirated material can enter the lungs and result in pneumonitis. May cause an aspiration hazard if swallowed. Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.

**Existing conditions aggravated by exposure:** Pre-existing skin, respiratory, central nervous system, liver and kidney conditions may be susceptible. 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	%
Toluene	108-88-3	30 - 60
Methyl ethyl ketone	78-93-3	10 - 30
Polychloroprene synthetic rubber	Unknown	5 - 10
Carbon black	1333-86-4	5 - 10
Silicic acid (H <sub>6</sub> Si <sub>2</sub> O <sub>7</sub> ), aluminum salt (1:2)	22708-90-3	5 - 10
Xylenes	1330-20-7	1 - 5

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Wash with soap and water. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
<b>Ingestion:</b>	Get immediate medical attention. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees. Do not induce vomiting.
<b>Notes to physician:</b>	Aspiration may cause pulmonary edema or aspiration pneumonia.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	-1 °C (30.2 °F) Tagliabue closed cup
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits - lower:</b>	1.4 % (Toluene)
<b>Flammable/Explosive limits - upper:</b>	7 % (Toluene)
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.
<b>Unusual fire or explosion hazards:</b>	None Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of aluminum.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Environmental precautions:</b>	Contain spill. Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Do not breathe gas/fumes/vapor/spray. Do not get on skin or clothing. Do not taste or swallow. Wash thoroughly after handling. Do not get in eyes.
<b>Storage:</b>	For safe storage, store at or below 37 °C (98.6 °F) Store away from heat, sparks, flames, or other sources of ignition.

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
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
Methyl ethyl ketone	200 ppm TWA 300 ppm STEL	200 ppm (590 mg/m3) TWA	None	None
Polychloroprene synthetic rubber	None	None	None	None
Carbon black	3.5 mg/m3 TWA	3.5 mg/m3 TWA	None	None
Silicic acid (H6Si2O7), aluminum salt (1:2)	1 mg/m3 TWA Respirable fraction.	None	None	None
Xylenes	100 ppm TWA 150 ppm STEL	100 ppm (435 mg/m3) TWA	None	None

**Engineering controls:**

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

**Respiratory protection:**

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

**Eye/face protection:**

Goggles. Safety glasses with side-shields.

**Skin protection:**

Use impermeable gloves and protective clothing as necessary to prevent skin contact. Use of Butyl or Nitrile Rubber gloves are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Black
<b>Odor:</b>	Sweet
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Boiling point/range:</b>	190 °F (87.8 °C) Approximately
<b>Melting point/ range:</b>	Not available
<b>Specific gravity:</b>	0.85 at 26.7 °C (80.06 °F)
<b>Vapor density:</b>	Not available
<b>Flash point:</b>	-1 °C (30.2 °F) Tagliabue closed cup
<b>Flammable/Explosive limits - lower:</b>	1.4 % (Toluene)
<b>Flammable/Explosive limits - upper:</b>	7 % (Toluene)
<b>Autoignition temperature:</b>	Not available
<b>Evaporation rate:</b>	7.7 (Ether = 1)
<b>Evaporation rate:</b>	> 7.7 (Ether = 1)
<b>Solubility in water:</b>	Slight
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	83.8 %; 712 g/l EPA Method 24

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Hydrogen chloride. Carbonyl chloride.
<b>Incompatible materials:</b>	Strong acids. Strong oxidizing agents.
<b>Conditions to avoid:</b>	Not determined

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Toluene	No	No	No
Methyl ethyl ketone	No	No	No
Polychloroprene synthetic rubber	No	No	No
Carbon black	No	Group 2B	No
Silicic acid (H <sub>6</sub> Si <sub>2</sub> O <sub>7</sub> ), aluminum salt (1:2)	No	No	No
Xylenes	No	No	No

Hazardous components	Health Effects/Target Organs
Toluene	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
Methyl ethyl ketone	Irritant, Central nervous system
Polychloroprene synthetic rubber	No Data
Carbon black	Respiratory, Some evidence of carcinogenicity
Silicic acid (H <sub>6</sub> Si <sub>2</sub> O <sub>7</sub> ), aluminum salt (1:2)	No Records
Xylenes	Cardiac, Central nervous system, Irritant, Kidney, Liver

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 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: D001: Ignitable.

## 14. TRANSPORT INFORMATION

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

Proper shipping name: Flammable liquids, n.o.s. (Toluene, Methyl ethyl ketone)  
Hazard class or division: 3  
Identification number: UN 1993  
Packing group: II  
DOT Reportable quantity: Toluene, Xylene (mixed)  
Exceptions: (Not more than 1 L), Consumer Commodity, ORM-D

### International Air Transportation (ICAO/IATA)

Proper shipping name: Flammable liquid, n.o.s. (Toluene, Methyl ethyl ketone)  
Hazard class or division: 3  
Identification number: UN 1993  
Packing group: II  
Exceptions: May Qualify as Consumer Commodity, (Not more than 500 ml), ID8000

### Water Transportation (IMO/IMDG)

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Toluene, Methyl ethyl ketone)  
Hazard class or division: 3  
Identification number: UN 1993  
Packing group: II  
Exceptions: Limited quantity (Not more than 5 L).

## 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.

<b>TSCA 12(b) Export Notification:</b>	Xylenes (CAS# 1330-20-7).
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 311/312:</b>	Delayed Health, Immediate Health, Fire
<b>CERCLA/SARA 313:</b>	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Toluene (CAS# 108-88-3). Methyl ethyl ketone (CAS# 78-93-3). Xylenes (CAS# 1330-20-7).
<b>California Proposition 65:</b>	This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### Canada Regulatory Information

<b>CEPA DSL/NDL Status:</b>	One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.
<b>WHMIS hazard class:</b>	B.2, D.2.A, 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.

**Prepared by:** Kyra Kozak Woods, Manager, Regulatory Affairs

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Revision Number: 002.0

Issue date: 01/12/2012

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	<b>LOCTITE® 404™ INSTANT ADHESIVE</b>	<b>IDH number:</b>	135465
	<b>QUICK SET™ P/N 46551</b>		
<b>Product type:</b>	Cyanoacrylate	<b>Item number:</b>	46551
		<b>Region:</b>	United States
<b>Company address:</b>	<b>Contact information:</b>		
Henkel Corporation	Telephone: 860.571.5100		
One Henkel Way	Emergency telephone: 860.571.5100 MEDICAL EMERGENCY		
Rocky Hill, Connecticut 06067	Phone: Poison Control Center		
	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		
	Internet: www.henkelna.com		

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b>	Liquid	<b>HMIS:</b>	
<b>Color:</b>	Clear, Colorless	<b>HEALTH:</b>	2
<b>Odor:</b>	Sharp, Irritating	<b>FLAMMABILITY:</b>	2
		<b>PHYSICAL HAZARD:</b>	1
		<b>Personal Protection:</b>	See MSDS Section 8
<b>WARNING:</b>	<b>BONDS SKIN IN SECONDS.</b>		
	<b>MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.</b>		

**Relevant routes of exposure:** Skin, Inhalation, Eyes

### Potential Health Effects

<b>Inhalation:</b>	Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.
<b>Skin contact:</b>	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. 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.
<b>Eye contact:</b>	Irritating to eyes. Causes excessive tearing. Eyelids may bond.
<b>Ingestion:</b>	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
Hydroquinone	123-31-9	0.1 - 1

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If symptoms persist, seek medical advice.
<b>Skin contact:</b>	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.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	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.
<b>Notes to physician:</b>	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

<b>Flash point:</b>	80 - 93.3 °C (176°F - 199.94 °F) Tagliabue closed cup
<b>Autoignition temperature:</b>	485 °C (905°F)
<b>Flammable/Explosive limits - lower:</b>	Not determined
<b>Flammable/Explosive limits - upper:</b>	Not determined
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
<b>Unusual fire or explosion hazards:</b>	None
<b>Hazardous combustion products:</b>	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.

<b>Environmental precautions:</b>	Ventilate area.
<b>Clean-up methods:</b>	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.
- 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
Hydroquinone	1 mg/m <sup>3</sup> TWA (Sensitiser.)	2 mg/m <sup>3</sup> TWA	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:** Use a NIOSH approved supplied air respirator with an organic cartridge if the potential to exceed established exposure limits exists.
- 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:** Clear, Colorless
- Odor:** Sharp, Irritating
- Odor threshold:** 1 - 2 ppm
- pH:** Not applicable
- Vapor pressure:** < 0.2 mm hg
- Boiling point/range:** > 149 °C (> 300.2 °F)
- Melting point/ range:** Not determined
- Specific gravity:** 1.09 at 23.9 °C (75.02 °F)
- Vapor density:** 3 Approximately
- Flash point:** 80 - 93.3 °C (176°F - 199.94 °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.
- Partition coefficient (n-octanol/water):** Not determined
- VOC content:** < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)



## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous reactions:</b>	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
<b>Hazardous decomposition products:</b>	None
<b>Incompatible materials:</b>	Water, amines, alkalis and alcohols.
<b>Conditions to avoid:</b>	Spontaneous polymerization.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute oral product toxicity:</b>	LD50 (rat) > 5,000 mg/kg (Estimated)
<b>Acute dermal product toxicity:</b>	LD50 (rabbit) > 2,000 mg/kg (Estimated)

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

Hazardous components	Health Effects/Target Organs
Ethyl 2-cyanoacrylate	Irritant, Allergen, Respiratory
Hydroquinone	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Immune system, Irritant, Liver, Mutagen, Skin, Thyroid

## 12. ECOLOGICAL INFORMATION

<b>Ecological information:</b>	Not known.
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## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

<b>Recommended method of disposal:</b>	Follow all local, state, federal and provincial regulations for disposal.
<b>Hazardous waste number:</b>	Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

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

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

### International Air Transportation (ICAO/IATA)

<b>Proper shipping name:</b>	Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
<b>Hazard class or division:</b>	9
<b>Identification number:</b>	UN 3334
<b>Packing group:</b>	None
<b>Exceptions:</b>	(Not more than 500ml) 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**

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12(b) Export Notification:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 302 EHS:</b>	Hydroquinone (CAS# 123-31-9).
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health, Fire, Reactive
<b>CERCLA/SARA 313:</b>	None above reporting de minimus
<b>CERCLA Reportable quantity:</b>	Hydroquinone (CAS# 123-31-9) 100 lbs. (45.4 kg)
<b>California Proposition 65:</b>	No California Proposition 65 listed chemicals are known to be present.

**Canada Regulatory Information**

<b>CEPA DSL/NDL Status:</b>	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
<b>WHMIS hazard class:</b>	B.3, D.2.A, D.2.B

**16. OTHER INFORMATION**

**This material safety data sheet contains changes from the previous version in sections:** Updated Contact Information in Section 1., Reviewed MSDS. Reissued with new date.

**Prepared by:** Kyra Kozak Woods, Manager, Regulatory Affairs

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.



Revision Number: 002.0

Issue date: 12/19/2011

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Clean Up Solvent  
**Product type:** Solvent

**IDH number:** 234979  
**Item number:** 75326  
**Region:** United States

**Company address:**  
 Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**Contact information:**  
 Telephone: 860.571.5100  
 MEDICAL EMERGENCY Phone: Poison Control Center  
 1-877-671-4608 (toll free) or 1-303-592-1711  
 TRANSPORT EMERGENCY Phone: CHEMTREC  
 1-800-424-9300 (toll free) or 1-703-527-3887  
 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Physical state:** Liquid  
**Color:** Clear  
**Odor:** mild, amine-like

### HMIS:

**HEALTH:** 2  
**FLAMMABILITY:** 2  
**PHYSICAL HAZARD:** 0  
**Personal Protection:** See MSDS Section 8

**CAUTION:** COMBUSTIBLE LIQUID.  
 CAUSES EYE IRRITATION.  
 MAY CAUSE SKIN IRRITATION.

**Relevant routes of exposure:** Eyes, Skin

### Potential Health Effects

**Inhalation:** Not a hazard under normal conditions of use.  
**Skin contact:** Mild skin irritation. Prolonged or repeated contact has caused severe dermatitis including blisters, cracking, edema and redness.  
**Eye contact:** Moderate eye irritation.  
**Ingestion:** Not expected under normal conditions of use.

**Existing conditions aggravated by exposure:** None generally recognized.

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	%
N-Methyl-2-pyrrolidone	872-50-4	60 - 100

## 4. FIRST AID MEASURES

**Inhalation:** No specific treatment is necessary since material is not likely to be hazardous by inhalation. If symptoms develop and persist, get medical attention.

**Skin contact:** Wash with soap and water.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes.

**Ingestion:** Do not induce vomiting. Drink 1-2 glasses of water, seek medical advice. Never give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

**Flash point:** 92.7 °C (198.86 °F) Closed cup

**Autoignition temperature:** 270 °C (518°F)

**Flammable/Explosive limits - lower:** 1.3 %

**Flammable/Explosive limits - upper:** 9.5 %

**Extinguishing media:** Use dry chemical, water spray or carbon dioxide.

**Special firefighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Unusual fire or explosion hazards:** Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back. Vapors may form explosive mixtures with air.

**Hazardous combustion products:** Oxides of carbon. Oxides of nitrogen.

## 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:** Remove all sources of ignition. Contain spill.

**Clean-up methods:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for disposal. Rinse spill area with water.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing.

**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
N-Methyl-2-pyrrolidone	None	None	10 ppm (40 mg/m3) TWA (SKIN)	None

**Engineering controls:** Ensure adequate ventilation. Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

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

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

**Skin protection:**

Use neoprene gloves and protective clothing as necessary to prevent skin contact.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	Liquid
Color:	Clear
Odor:	mild, amine-like
Odor threshold:	Not available.
pH:	7.2
Vapor pressure:	0.29 mm hg (20 °C (68°F))
Boiling point/range:	202 °F (94.4 °C)
Melting point/ range:	-24.4 °C (-11.9 °F)
Specific gravity:	1.025 - 1.035 at 25 °C (77°F)
Vapor density:	Not available.
Flash point:	92.7 °C (198.86 °F) Closed cup
Flammable/Explosive limits - lower:	1.3 %
Flammable/Explosive limits - upper:	9.5 %
Autoignition temperature:	270 °C (518°F)
Evaporation rate:	Not available.
Solubility in water:	Miscible
Partition coefficient (n-octanol/water):	Not available.
VOC content:	99 %; 1,028.9 g/l EPA Method 24

**10. STABILITY AND REACTIVITY**

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen.
Incompatible materials:	Strong oxidizing agents. Strong reducing agents.
Conditions to avoid:	None anticipated.

**11. TOXICOLOGICAL INFORMATION**

Product toxicity data:	Non-sensitizing to guinea pigs (1% v/v solution)., Non-sensitizing (Human RIPT - 15 applications)., Non-mutagenic (In-vivo and in-vitro).
Acute oral product toxicity:	LD50 (rat) 4,200 mg/kg
Acute dermal product toxicity:	LD50 (rat) 8,000 mg/kg
Acute inhalation product toxicity:	LC50 (rat) > 400 ppm

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
N-Methyl-2-pyrrolidone	No	No	No

Hazardous components	Health Effects/Target Organs
N-Methyl-2-pyrrolidone	Blood, Bone Marrow, Central nervous system, Immune system, Irritant, Lung

**12. ECOLOGICAL INFORMATION****Ecological information:**

Biodegradable. (Warburg Respiratory Method) Bluegill (*Lepomis macrochirus*) LC50 @ 22°C: 832mg/L Fathead minnow (*Pimephales promelas*) LC50 @ 22°C: 1,072mg/L Trout (*Salmo gairdneri*) LC50 @ 12°C: 3.048mg/L

### 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. (N-Methyl pyrrolidinone)  
**Hazard class or division:** Combustible Liquid  
**Identification number:** NA 1993  
**Packing group:** III  
**Exceptions:** Unrestricted, (Not more than 450 Liters)

#### International Air Transportation (ICAO/IATA)

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

#### 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:** N-Methyl-2-pyrrolidone (CAS# 872-50-4).  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimus  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health, Fire  
**CERCLA/SARA 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). N-Methyl-2-pyrrolidone (CAS# 872-50-4).  
**California Proposition 65:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### Canada Regulatory Information

**CEPA DSL/NDL 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:** Reviewed MSDS. Reissued with new date.

**Prepared by:** Kyra Kozak Woods, Manager, Regulatory Affairs

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