

Revision Date: 02/14/2008

Issue date: 02/14/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: HYSOL PC18M QT
Product type: Polyurethane hardener
Company address:
 Henkel Corporation
 211 Franklin Street
 Olean, New York 14760

Item No. : PO0011-B30 / IDH No. 397757
Region: United States
Contact Information:
 Telephone: 716.372.6300
 Emergency Telephone: 860.571.5100
 Internet: www.electronics.henkel.us

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Polyurethane Proprietary	30-60	None	None	None
1-Methoxy-2-propanol acetate 108-65-6	10-30	None	None	50 ppm TWA, (WEEL) 100 ppm TWA 150 ppm STEL
Xylene 1330-20-7	10-30	100 ppm TWA 150 ppm STEL	100 ppm TWA 435 mg/m ³ TWA	None
Ethyl benzene 100-41-4	5-10	100 ppm TWA 125 ppm STEL	100 ppm TWA 435 mg/m ³ TWA	None
Toluene Diisocyanate 26471-62-5	1-5	0.005 ppm TWA 0.02 ppm STEL	None	None

3. HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW
HMS:

Physical state: Liquid
Color: Clear Amber
Odor: Sweet

HEALTH: 3*
FLAMMABILITY: 3
PHYSICAL HAZARD: 1
Personal Protection: See Section 8

WARNING: FLAMMABLE LIQUID AND VAPOR.
 MAY BE HARMFUL IF INHALED.
 MAY AFFECT THE CENTRAL NERVOUS SYSTEM.
 MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Eye contact, Ingestion, Inhalation, Skin contact

Potential Health Effects
Inhalation:

May be harmful if inhaled. Exposure to vapors above the established exposure limit results in respiratory irritation which may lead to difficulty in breathing and tightness in the chest. Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Continued exposure may cause increased light-headedness, staggering, unconsciousness and even death. As a result of previous repeated exposures or a single large dose, certain individuals develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Overexposure to isocyanates has also been reported to cause lung damage (including decrease in lung function) which may be permanent. Exposure to diisocyanates may cause the following human health effects: Skin irritation and allergic reactions, respiratory irritation, respiratory sensitization and lung toxicity; some diisocyanates also may cause cancer. The likelihood that these effects will occur depends on a number of factors; among them the level of exposure, frequency of exposure, part of body exposed and sensitivity of the exposed individual.

Skin contact: May cause severe irritation due to defatting of skin. Redness. Swelling. Solvents can penetrate skin and may cause systemic effects similar to those identified under inhalation. Repeated or prolonged contact with solvents can dry, defat and crack skin causing increased susceptibility to infection. Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering. Once sensitized, an individual may react even to airborne levels below the TLV with the following symptoms: itching and tingling of the earlobes and neck, rash, hives, swelling of the arms and legs or other symptoms common to allergic dermatitis.

Eye contact: May cause severe eye irritation. Redness. Swelling. Tearing. Conjunctivitis.

Ingestion: Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders. Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic symptoms from exposure to this product.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Get medical attention if symptoms occur. For severe exposures, get under safety shower after removing clothing, then get medical attention. Wash clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.

Ingestion: Do not induce vomiting. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees. Aspiration may cause pulmonary edema and pneumonitis. Never give anything by mouth to an unconscious person. Give a conscious person several glasses of water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point: 31°C (88°F) Setaflash Closed cup

Autoignition temperature: 354°C (670°F)

Flammable/Explosive limits-lower %: 1 %

Flammable/Explosive limits-upper %: 7 %

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Keep unnecessary personnel away. Keep personnel upwind of fire. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Unusual fire or explosion hazards: Contains flammable solvent. Do not store or use near heat, spark, open flame or other sources of ignition. Closed containers may explode when exposed to extreme heat. Vapors are heavier than air and may travel to ignition sources and flash back.

Hazardous combustion products: Hydrogen cyanide. Toluenediisocyanate. Oxides of carbon, oxides of nitrogen, irritating organic vapors.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering drains or open waters.

Clean-up methods: Remove all sources of ignition. Spilled liquid is combustible and can be ignited by heat, flames, sparks, or other sources of ignition. Immediately contact emergency personnel. Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Soak up with inert absorbent. Use noncombustible absorbent material such as sand. Keep in suitable and closed containers for disposal. Use spark proof equipment to remove excess contaminant.

7. HANDLING AND STORAGE

Handling:	Avoid all ignition sources in storing and handling this material. Keep cool in accordance with label instructions. Wear protective equipment when handling. Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed. Make sure containers are properly grounded before use or transfer of material. For operations where eye or face contact could occur, provide safety shower and eyewash fountain.
Storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at 1-716-372-6300.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use explosion-proof mechanical ventilation and local exhaust to control contaminants to within their occupational exposure limits during the use of this product.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact.
Eye/face protection:	Safety goggles or safety glasses with side shields. In a splash hazard environment, chemical goggles should be used in combination with a full face shield. An eyewash and safety shower should be nearby and ready for use.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Clear Amber
Odor:	Sweet
Vapor pressure:	3.7 - 5.1 mmHg at 20 °C (68 °F)
pH:	Not applicable
Boiling point/range:	137-150°C (279-302°F)
Melting point/range:	Not available
Specific gravity:	1.019 to 1.031 at 25°C (77°F)
Vapor density:	Approximately 3.66 - 4.6
Evaporation rate:	0.37 - 0.86
Solubility in water:	Insoluble.
Partition coefficient (n-octanol/water):	Not available
VOC content:	52%-54%

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors.
Incompatibility:	Strong oxidizing agents. Water, Amines, Alkalis, Alcohols. Strong acids and strong bases.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition. Avoid static discharge.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Polyurethane Proprietary	No	No	No
1-Methoxy-2-propanol acetate 108-65-6	No	No	No
Xylene 1330-20-7	No	No	No
Ethyl benzene 100-41-4	No	Group 2B	Yes
Toluene Diisocyanate 26471-62-5	Suspect Carcinogen	Group 2B	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Polyurethane Proprietary	No data
1-Methoxy-2-propanol acetate 108-65-6	Central nervous system, Irritant
Xylene 1330-20-7	Cardiac, Central nervous system, Irritant, Kidney, Liver
Ethyl benzene 100-41-4	Central nervous system, Irritant
Toluene Diisocyanate 26471-62-5	Allergen, Bone Marrow, Corrosive, Eyes, Irritant, Mutagen, Respiratory, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

Proper shipping name: RESIN SOLUTION
Hazard class or division: 3
Identification number: UN 1866
Packing group: III
Exceptions: Consumer Commodity ORM-D (Not more than 5L)

International Air Transportation (ICAO/IATA):

Proper shipping name: RESIN SOLUTION
Hazard class or division: 3
Identification number: UN1866
Packing group: III

Water Transportation (IMO/IMDG):

Proper shipping name: RESIN SOLUTION
Hazard class or division: 3
Identification number: UN1866
Packing group: III
Marine pollutant: 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.
CERCLA/SARA Section 302 EHS:	None.
CERCLA/SARA Section 311/312:	Fire, Immediate Health Hazard, Delayed Health Hazard
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). Xylene (CAS# 1330-20-7). Ethyl benzene (CAS# 100-41-4). Toluene Diisocyanate (CAS# 26471-62-5).
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class:	B.2, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Updated Revision Date Only

Prepared by: Dan Shaw, Product Safety and Regulatory Affairs Specialist
For Safety and Regulatory Information contact:
Product Safety and Regulatory Affairs,
Rocky Hill, CT.
860-571-5204

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation 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 of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.