

MANUFACTURER'S NAME:

QUALITY SYSTEMS, INC.
1101 Menzler Road
Nashville, TN 37210

EMERGENCY TELEPHONE NO.:

(800) 535-5053

DATE OF PREPARATION:

10/24/07

INFORMATION TELEPHONE NO.:

(800) 607-3762

SECTION I-PRODUCT IDENTIFICATION

PRODUCT NAME: PERMA•THANE CRU 750 (Part A)

SECTION II-HAZARDOUS INGREDIENTS

All hazardous ingredients are below reporting threshold. Mixture of this material with part B will cause it to have properties of both materials.

SECTION III-PHYSICAL DATA

BOILING RANGE:	212° - 250° F	EVAPORATION	
VAPOR DENSITY:	Heavier than air	RATE:	Similar to Water
WT/GAL:	9.30 (1070 g/l)	% VOLATILE VOLUME:	60.2
VOC W/ WATER:	(17 g/l)	% WEIGHT SOLIDS:	40.3

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:	Slightly combustible - Class 111B
FLASH POINT:	200° F
EXTINGUISHING MEDIA:	Foam, Alcohol Foam, CO ₂ , Dry Chemical, Water, Other
SPECIAL FIRE FIGHTING PROCEDURES:	Respiratory equipment should be worn to avoid inhalation of concentrated vapors
UNUSUAL FIRE & EXPLOSION HAZARDS:	Material does not support combustion

HMIS CODES: H - 1; F - 1; R - 1; PP - 1

SECTION V-HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation: Yes Skin: Yes Ingestion: Yes

EFFECTS OF OVEREXPOSURE:

INHALATION: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death. EYE CONTACT: Severe irritation, tearing, redness, blurred vision, and blindness. SKINCONTACT: Irritation and dermatitis. INGESTION: Can cause gastrointestinal irritation, vomiting, nausea, diarrhea, and death.

SECTION V-HEALTH HAZARD DAT-Cont'd.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Anesthesia, respiratory tract irritation, dermatitis, nausea, vomiting

FIRST AID:

INHALATION: Move exposed person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.
EYE CONTACT: Flush with large quantities of water for 15 minutes.
SKIN CONTACT: Wash thoroughly with soap and water and see a doctor.
INGESTION: Contact physician immediately.

SECTION VI-REACTIVITY DATA

STABILITY: Stable.
CONDITIONS TO AVOID: Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: Carbon monoxide, carbon dioxide, oxides of nitrogen.
INCOMPATIBILITY (MATERIALS TO AVOID): Alkaline materials, strong acids and oxidizing materials.

SECTION VII-SPILL AND DISPOSAL PROCEDURES

SPILL RESPONSE: Eliminate ignition sources, provide good ventilation, dike spill area and add absorbent earth or sawdust to spilled liquid.
RECOMMENDED DISPOSAL: Collect absorbent/spilled liquid mixture into metal containers. Consult local, state and federal hazardous waste regulation before disposing into approved hazardous waste landfills. Obey relevant laws.

SECTION VIII-SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: When spraying this material use a NIOSH approved cartridge respirator or gas mask suitable to keep airborne and vapor concentration below the time-weighted threshold limit values. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.
VENTILATION: General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV. Ventilation equipment should be explosion proof.
PROTECTIVE GLOVES: Impermeable chemical handling gloves for skin protection.
EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.
OTHER PROTECTIVE EQUIPMENT: Use impermeable aprons and protective clothing whenever possible to prevent skin contact. The use of head caps whenever possible is strongly recommended.
HYGIENIC PRACTICES: Eye washes and safety showers in the workplace are recommended.

SECTION IX-SPECIAL PRECAUTIONS

RECOMMENDED STORAGE: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames.
OTHER PRECAUTIONS: Smoking in areas where this material is used should be strictly prohibited.

Abbreviations: N/D - Not Determined

N/A - Not Applicable

This information is accurate to the best knowledge of Quality Systems, Inc., but is furnished without any expressed or implied warranties. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

MATERIAL SAFETY DATA SHEET

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SECTION I-PRODUCT IDENTIFICATION

PRODUCT NAME: PERMA•THANE CRU 750 (Part B)

SECTION II-HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	VAPOR PRESSURE WT.		WEIGHT %
		mmHg @	TEMP.	
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	7.5 X 10 ⁻⁵	20°C	100
HYDROPHILIC ALIPHATIC POLYISOYANATE based on HEXAMETHYLENE DIISOCYANATE	Proprietary	N/A		< = 0.25%

(*) Subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372. Distribution of this product must be accompanied by a copy of this MSDS.

SECTION III-PHYSICAL DATA

BOILING POINT: After Decomposition
WT/GAL: 9.6 (1113 g/l) **EVAPORATION RATE:** N/A
VOC: **% VOLATILE VOLUME:** 0.25%
% WEIGHT SOLIDS: 100% **VAPOR DENSITY:** Heavier than air

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable - Class IC
FLASH POINT: 365°F
EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO₂, Dry Chemical,
Water Fog, Other

SPECIAL FIRE FIGHTING PROCEDURES: Respiratory equipment should be worn to avoid inhalation of concentrated vapors. Water should not be used except as fog to keep nearby containers cool.

UNUSUAL FIRE & EXPLOSION HAZARDS: Handle as flammable material. Vapors form an explosive mixture in air between the upper and lower explosive limits which can be ignited by many sources such as pilot lights, open flames, electrical motors and switches.

HMIS CODES: H - 2; F - 1; R - 1; PP - H

SECTION V-HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation: Yes Skin: Yes Ingestion: Yes

EFFECTS OF OVEREXPOSURE:

INHALATION: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death. EYE CONTACT: Severe irritation, tearing, redness, blurred vision, and blindness. SKIN CONTACT: Can dry and defat skin causing cracks, irritation, and dermatitis. INGESTION: Can cause gastrointestinal irritation, vomiting, nausea, diarrhea, and death.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Asthma, respiratory tract irritation, dermatitis, nausea, vomiting.

FIRST AID:

INHALATION: Move exposed person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.

EYE CONTACT: Flush with large quantities of water for 15 minutes.

SKIN CONTACT: Wash thoroughly with soap and water and see a doctor. Remove contaminated clothing.

INGESTION: Contact physician immediately.

SECTION VI-REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: Carbon monoxide, carbon dioxide, oxides of nitrogen.

INCOMPATIBILITY

(MATERIALS TO AVOID): Water, Amines, Strong Bases, Alcohols, Copper Alloys

SECTION VII-SPILL AND DISPOSAL PROCEDURES

SPILL RESPONSE: Eliminate ignition sources, provide good ventilation, dike spill area and add absorbent earth or sawdust to spilled liquid.

RECOMMENDED DISPOSAL: Collect absorbent/spilled liquid mixture into metal containers. Consult local, state and federal hazardous waste regulation before disposing into approved hazardous waste landfills. Obey relevant laws.

SECTION VIII-SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Reports have associated repeated or prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. **INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS OR PRIOR REACTION TO ISOCYANATES MUST NOT BE EXPOSED TO VAPOR OR SPRAY MIST.** Do not breathe vapor or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. An airline respirator (TC 19C NIOSH/MSHA) is recommended. A vapor/particulate respirator (TC 23C NIOSH/MSHA) may be appropriate where airborne monitoring demonstrates vapor levels below ten times the applicable exposure limits. Follow respirator manufacturer's directions for respirator use.

SECTION VIII-SAFE HANDLING AND USE INFORMATION

VENTILATION: General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV. Ventilation equipment should be explosion proof.

PROTECTIVE GLOVES: Impermeable chemical handling gloves for skin protection.

EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.

OTHER PROTECTIVE EQUIPMENT: Use impermeable aprons and protective clothing whenever possible to prevent skin contact. The use of head caps whenever possible is strongly recommended.

HYGIENIC PRACTICES: Eye washes and safety showers in the workplace are recommended.

SECTION IX-SPECIAL PRECAUTIONS

RECOMMENDED STORAGE: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames.

OTHER PRECAUTIONS: Smoking in areas where this material is used should be strictly prohibited.

NOTICE: The contents of this package may be blended with other components before the product can be used. Any mixture of components will have hazards of all components. Before opening the packages, read all warning labels. Follow all precautions.

Abbreviations: N/D - Not Determined

N/A - Not Applicable

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