

MATERIAL SAFETY
DATA SHEET

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FORMULA 25, LIQUID

PRODUCT ID NO.: 5135

PAGE: 1

EFFECTIVE DATE: 01/20/03

DATE PREPARED: 11/15/06

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This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community Right To Know emergency response reporting requirements under SARA TITLE III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS.

This MSDS complies with 29 CFR 1910.1200
(The Hazard Communication Standard)

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT DESCRIPTION: KWIK RUST PENETRANT, LIQUID

D.O.T. PROPER SHIPPING NAME: TETRACHLOROETHYLENE

6.1, UN 1897, III

NFPA CODES: HEALTH - 2 FLAMMABILITY - 0 CORROSIVE - 0 REACTIVITY - 0

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SECTION II - COMPONENTS

DICHLOROMETHANE

CAS #: 75-09-2

* PEL: TWA 25 ppm

TLV: ACGIH 50 ppm

TETRACHLOROETHYLENE

CAS #: 127-18-4

* PEL: 25 PPM

TLV: 25 PPM

ALKANOLAMINES

CAS #: 102-71-6

PEL: NOT ESTABLISHED

TLV: NOT ESTABLISHED

"*" If present, IARL, NTP and OSHA carcinogens and chemical subject to this reporting requirements of SARA TITLE III, SECTION 313 are identified in this section.

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SECTION III - PHYSICAL DATA

BOILING POINT FOR PRODUCT: 168 F

VAPOR PRESSURE FOR PRODUCT: N/D

VAPOR DENSITY FOR PRODUCT: AIR=1: 1

SPECIFIC GRAVITY: 0.79

V.O.C.(GRAMS PER LITER): 638

WATER SOLUBILITY: INSOLUBLE

APPEARANCE: LIGHT BROWN

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SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT(TCC): NON FLAMMABLE

EXPLOSIVE LIMIT (PRODUCT): LOWER - N/A

UPPER - N/A

AUTOIGNITION TEMPERATURE: not available

EXTINGUISHING MEDIA: Fires involving this product are unlikely, but should one occur, it may be controlled by carbon dioxide, dry chemicals or water spray. SPECIAL FIRE FIGHTING PROCEDURES: Pressure-demand, self-contained breathing apparatus should be provided for fire fighters in building or confined areas where product is stored. Storage containers exposed to fire should be kept cool with a water spray, in order to prevent pressure buildup.

UNUSUAL FIRE AND EXPLOSION HAZARD: At high temperatures, this product decomposes to give off hydrochloric acid gas plus other toxic and irritating vapors such as phosgene. If storage containers are exposed to excessive heat, over-pressurization of containers can result.

===== SECTION V - HEALTH HAZARD DATA =====

SEC05.22

ROUTES OF EXPOSURE:

INHALATION: Excessive inhalation may produce symptoms of central nervous system depression, ranging from light-headedness, nausea and vomiting, to unconsciousness and death.

SKIN: Mildly irritating to skin. Skin contact may produce a burning sensation--prolonged or repeated contact may cause skin to become redened, rough, and dry due to the removal of natural oils and may result in dermatitis.

May be absorbed through the skin, although not expected to produce toxicity through this route.

EYE CONTACT: An irritant of the eyes, causing pain, lacrimation and general inflammation.

INGESTION: May cause irritation of the gastrointestinal tract with vomiting. If vomiting results in aspiration, chemical pneumonia may follow. Absorption through the gastrointestinal tract may produce symptoms of central nervous system depression ranging from light headedness to unconsciousness.

EFFECTS OF OVEREXPOSURE:

ACCUTE: Excessive inhalation or ingestion may produce symptoms of central nervous system depression ranging from light headedness, to unconsciousness and death. Overexposure may result in liver and kidney damage. Exposure of the eyes and skin may produce irritation. Animals exposed to high levels have shown cardiac sensitization.

CHRONIC: Can cause headache, mental confusion, depression, fatigue, loss of sense of balance, and visual disturbances. Prolonged or repeated skin contact may cause dermatitis.

HYGIENE: Avoid contact with skin and avoid breathing vapors. Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking or using restroom.

FIRST AID:

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

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

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

NOTE TO PHYSICIAN: Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighted against toxicity when considering emptying the stomach. Exposure may increase "myocardial irritability". Do not administer sympathomimetic drugs unless absolutely necessary.

(PROPOSITION 65):SEC05

State of California SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986.

WARNING: IN ACCORDANCE WITH PROP 65, THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM.

===== SECTION VI - REACTIVITY DATA =====

SEC06.22

CONDITIONS CONTRIBUTING TO INSTABILITY:

Under normal conditions, this material is stable.

INCOMPATIBILITY: Avoid contacting product with pure oxygen, alkali metals, open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: At high temperatures, this product decomposes to give off hydrogen chloride gas and small quantities of other toxic and irritation vapors such as phosgene.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

===== SECTION VII - SPILL OR LEAK PROCEDURES =====

SEC07.22

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Leaks should be stopped. Spills should be contained and cleaned up immediately. Large spills--should be removed by using a vacuum truck. Smaller spills--may be soaked up with compatible absorbant materials which should then be placed in approved containers, labeled and stored in a safe place out of doors to await proper disposal. The spill area should then be flushed with water. All material should be removed and placed in approved containers to await proper treatment or disposal.

Persons performing clean up work should wear adequate personal protective equipment and clothing.

WASTE DISPOSAL METHOD: The materials resulting from clean up operations may be hazardous wastes and, therefore, subject to specific regulations. Package, store, transport and dispose of all clean up materials and any contaminated equipment in accordance with all applicalble Federal, State, and local health and environmental regulations.

===== SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED =====

SEC08.22

EYES: Face shield and goggles or chemical goggles should be worn.

GLOVES: Impervious gloves should be worn. Gloves contaminated with the product should be discarded.

OTHER CLOTHING EQUIPMENT: Standard work clothing.

Standard work shoes; discard if shoes cannot be decontaminated.

Store contaminated clothing in well ventilated cabinets or closed containers. Wash contaminated clothing and dry before reuse.

MONITORING EXPOSURE:

BIOLOGICAL: No applicable precedures can be recommended.

PERSONAL/AREA: Use NIOSH ANALYTICAL METHOD NUMBER 1003 for halogenated hydrocarbons.

RESPIRATORY PROTECTION: In situations where vapor concentrations exceed the recommended exposure limits, a NIOSH approved organic vapor cartridge or air-supplying respirator should be worn.

===== SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS =====
SEC09.22

HANDLING AND STORAGE PRECAUTIONS: Store drums in a cool place. Ventilation should be provided at the floor level. Do not store in pits, depressions, basements or unventilated areas.

In case of fire: use carbon dioxide, dry chemicals, water or foam. Ppressure-demand, self-contained breathing apparatus should be provided for fire fighters. At high temperatures, product decomposes to give off toxic and irritating gases such as phosgene and hydrochloric acid. Cool fire exposed containers with water spray to prevent over-pressurization.

OTHER PRECAUTIONS: Containers, even those that have been emptied, will

==== SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS(CONTINUED) ==
retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Do not mix this product with other cleaning agents. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

===== ADDITIONAL COMMENTS =====
comm.ab

CALIFORNIA AIR RESOURCE BOARD: This product complies with "REGULATION FOR REDUCING VOLATILE ORGANIC COMPOUND EMISSIONS FROM CONSUMER PRODUCTS" for the State of California.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.