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TWIN DEGREASER #14

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MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT TRADE NAME : TWIN DEGREASER #14

PRIMARY APPLICATION: Solvent-based cleaner

CAS NUMBER : Complex mixture

SYNONYMS : None

CHEMICAL FAMILY : Petroleum hydrocarbon blend

MANUFACTURER: Twin Specialties Corp.
15 East Ridge Pike
Conshohocken, PA 19428

INFORMATION #: (610)834-7900 PREPARER : John Ballinger
EMERGENCY #: (800)255-3924 REVISION DATE: 1/1/05

SECTION 2: COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

All hazardous components of this product at a weight concentration of 1% or greater are listed below. (0.1% for carcinogens) THIS LIST IS CONFIDENTIAL AND IS NOT TO BE REPRODUCED.

COMPONENT / EXPOSURE LIMITS	CAS NUMBER	PERCENT
Aliphatic petroleum distillates	64742-88-7	70 - 100
OSHA: PEL = 100 ppm		
ACGIH: TLV = 100 ppm		

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Danger - combustible liquid and vapor.
May cause skin irritation.

POTENTIAL HEALTH EFFECTS:

PRIMARY ROUTES OF EXPOSURE - INHALATION: Yes
SKIN : Yes
EYE : No
INGESTION : No

INHALATION: High vapor/aerosol concentrations may cause irritation to the eyes, nose, throat, and lungs, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects,

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including death.

SKIN: Prolonged or repeated contact may remove skin oils, possibly leading to irritation and dermatitis.

EYE: Contact may cause minimal irritation.

INGESTION: May cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Small amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and chemical pneumonitis, which can be fatal.

CARCINOGENICITY - IARC(No) NTP(No) OSHA(No) ACGIH(No) OTHER(No)

PRE-EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Disorders or diseases of the skin, eye, liver, kidney, nervous system, and respiratory system.

SECTION 4: FIRST AID MEASURES

INHALATION: Using proper respiratory protection, immediately remove affected victim from exposure. If breathing is difficult, administer oxygen. Give artificial respiration if breathing has stopped. Keep victim at rest and obtain prompt medical attention.

SKIN: Remove any contaminated clothing and thoroughly wash skin with soap and water. Launder or dry-clean clothing before reuse. If redness or swelling develops, obtain medical assistance.

EYE: Flush with clear water for at least 15 minutes or until irritation subsides. If irritation persists, obtain medical assistance.

INGESTION: DO NOT induce vomiting! Do not give liquids! Keep victim at rest and obtain emergency medical attention.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT (minimum): 142 F METHOD USED: TCC

FLAMMABLE LIMITS IN AIR (% VOLUME) -
LOWER EXPLOSIVE LIMIT (LEL): 1.0
UPPER EXPLOSIVE LIMIT (UEL): 7.0

FIRE AND EXPLOSION HAZARDS: This product is a combustible liquid (flash point between 100 and 200 F). Combustible mixtures can form at temperatures at or above the flash point. Toxic fumes, gases, or vapors may evolve on burning.

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, TWIN DEGREASER #14

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SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of.

EXTINGUISHING MEDIA: Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation.

SPECIAL FIRE FIGHTING INSTRUCTIONS: Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to remote ignition sources where they may ignite or explode.

HMS CLASSIFICATION: HEALTH: 1
FLAMMABILITY: 2
REACTIVITY: 0
PERSONAL PROTECTION INDEX: C

SPECIFIC HAZARD: Combustible liquid.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Prevent additional discharge of material, if possible to do so without hazard. Ventilate area and keep people away. Contain spill. Wear respiratory protection for large spill, leak or release. Use personal protective equipment stated in section 8. Shovel, sweep, or vacuum spill to recover free product. Add sand, earth, or other suitable absorbent to spill area. Keep product out of sewers and watercourses by diking or impounding. Advise authorities (EPA, state agency) if product has entered or may enter sewers, watercourses, or extensive land areas.

Assure conformity with applicable governmental regulations.

SECTION 7: HANDLING AND STORAGE

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Keep containers closed when not in use. Do not handle or

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store near heat, sparks, flame or strong oxidants. NFPA Class II storage. Transfer operations must be electrically grounded to dissipate static buildup.

Minimize breathing of vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean before re-use; discard if soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

VENTILATION: Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Mechanical ventilation recommended.

PERSONAL PROTECTIVE EQUIPMENT -

EYE: Use splash goggles or face shield when eye contact may occur.

GLOVES: Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact. The following glove materials are acceptable: polyethylene, neoprene, nitrile, polyvinyl alcohol, viton.

RESPIRATOR: Concentration-in-air determines protection needed. Use only NIOSH certified respiratory protection. Half-mask air purifying respirator with organic vapor cartridges is acceptable to 10 times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable to 50 times the exposure limit not to exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures above 50 times the exposure limit. If exposure is above IDLH (immediately dangerous to life & health) or there is the possibility of an uncontrolled release or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA.

OTHER: Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact. The following materials are acceptable as protective clothing materials: polyvinyl alcohol (PVA), polyvinyl chloride (PVC), neoprene, nitrile, viton, polyurethane. Safety shower and eye wash availability recommended.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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BOILING POINT (initial): 350 F
 SPECIFIC GRAVITY (60 F): 0.79
 DENSITY : 6.56 lb/gl
 VAPOR PRESSURE (20 C) : < 1.0 mm Hg
 VAPOR DENSITY : 4.6 (air = 1)
 SOLUBILITY IN WATER : Negligible
 PH INFORMATION : n/a
 % VOLATILES BY VOLUME : 100.00%
 EVAPORATION RATE : < 0.1 (n-butyl acetate = 1)
 APPEARANCE : Clear water-white liquid
 ODOR : Solvent type
 ODOR THRESHOLD (PPM) : Not determined

 SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable
 CONDITIONS TO AVOID: Sources of ignition
 INCOMPATIBLE MATERIALS: Strong oxidizing agents, nitric and sulfuric acid
 HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will produce fumes,
 smoke, carbon monoxide, and other asphyxiants.
 POLYMERIZATION: Will not occur

 SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Overexposure to mist or vapors may cause eye,
 nose, throat and respiratory tract irritation, central nervous
 system (brain) effects, dizziness, loss of balance and
 coordination, unconsciousness, coma, respiratory failure, and
 even death. Harmful or fatal if swallowed and/or vomiting
 occurs - pulmonary aspiration hazard.
 CHRONIC TOXICITY: Prolonged or repeated skin and eye contact may
 produce irritation. However, based on human experience and
 available toxicological data, this product is judged to be
 neither a "corrosive" nor an "irritant" by OSHA criteria.

 SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: No data available.

 SECTION 13: DISPOSAL CONSIDERATIONS

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 WASTE DISPOSAL METHOD: Follow federal, state, and local
 regulations. This product is not a RCRA hazardous waste if
 uncontaminated. If "used", RCRA criteria (ignitability,
 reactivity, corrosivity, toxicity characteristics) must be
 determined. Do not flush product to a drain and/or a storm

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sewer. Contract to an authorized disposal service.
SPECIAL SHIPPING INFORMATION: None

SECTION 14: TRANSPORTATION INFORMATION

DOT - PROPER SHIPPING NAME : Compounds, cleaning liquid (petroleum distillates)

HAZARD CLASS : Combustible
IDENTIFICATION NUMBER: NA 1993
PACKING GROUP : III
LABEL REQUIRED : Combustible liquid

IMDG - PROPER SHIPPING NAME: No data available

IATA - PROPER SHIPPING NAME: No data available

SECTION 15: REGULATORY INFORMATION

EPA/TSCA INVENTORY: All components of this product are listed.

SARA 302 THRESHOLD PLANNING QUANTITY: Not applicable

SARA 304 / CERCLA 302.4 REPORTABLE QUANTITY: Not applicable

SARA 311 CATEGORIES - IMMEDIATE (ACUTE) HEALTH EFFECTS : Yes
DELAYED (CHRONIC) HEALTH EFFECTS : Yes
FIRE HAZARD : Yes
SUDDEN RELEASE OF PRESSURE HAZARD: No
REACTIVITY HAZARD : No

SARA 313 SUBSTANCES ---
No known hazardous ingredients

SECTION 16: OTHER INFORMATION

WHMIS CLASSIFICATION: Not controlled

DISCLAIMER: The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Twin Specialties' knowledge; however, Twin Specialties Corp. makes no warranty whatsoever, expressed or implied, of merchantability or fitness for the particular purpose,
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