

MATERIAL SAFETY DATA SHEET

TWIN DEGREASER #114

PAGE: 1
DATE PREPARED: MAY 23, 1996
MSDS NO.: 92849691

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Twin Degreaser #114

CHEMICAL NAME: Synthetic Isoparaffinic Hydrocarbon

CHEMICAL FAMILY: Aliphatic Hydrocarbon

PRODUCT DESCRIPTION: Clear colorless liquid.

CAS 64742-48-9

CONTACT ADDRESS: TWIN SPECIALTIES CORP. 15 East Ridge Pike,
Conshohocken, PA 19428. Phone: (610) 834-7900, FAX: (610) 834-7903

HMIS®

** **EMERGENCY TELEPHONE NUMBERS: (24 Hours)** **

** Contact Chem-Tel: (800) 255-3924 **



NON EMERGENCY TELEPHONE NUMBERS : (8am-5pm M-F)
FOR HEALTH AND SAFETY INFORMATION CALL : (610) 834-7900
FOR GENERAL PRODUCT INFORMATION CALL : (610) 834-7900

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

This product is hazardous as defined in 29 CFR 1910.1200.
OSHA HAZARD
Combustible

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE CONTACT:

Slightly irritating but does not injure eye tissue.

SKIN CONTACT:

Frequent or prolonged contact may irritate and cause dermatitis.
Low order of toxicity.

Skin contact may aggravate an existing dermatitis condition.

INHALATION:

High vapor/aerosol concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

INGESTION:

Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.
Minimal toxicity.

SECTION 4 FIRST AID MEASURES

EYE CONTACT:

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

Continues on page 2

MATERIAL SAFETY DATA SHEET

TWIN DEGREASER #114

PAGE: 2
DATE PREPARED: MAY 23, 1996
MSDS NO.: 92849691

SKIN CONTACT:

Flush with large amounts of water; use soap if available.
Remove grossly contaminated clothing, including shoes, and launder before reuse.

INHALATION:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION:

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

FLASHPOINT:

120 Deg F. METHOD: TCC NOTE: Minimum

FLAMMABLE LIMITS:

LEL: 1.3 UEL: 9.8 @ 77 Deg F. NOTE: Approximate

AUTOIGNITION TEMPERATURE:

660 Deg F. NOTE: Approximate

GENERAL HAZARD

Combustible Liquid, can form combustible mixtures at temperatures at or above the flashpoint.

Static Discharge, material can accumulate static charges which can cause an incendiary electrical discharge.

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

Empty drums should be completely drained, properly bunged and promptly returned to a drum reconitioner, or properly disposed of.

FIRE FIGHTING

Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire.

Use foam, dry chemical, or water spray to extinguish fire.

Avoid spraying water directly into storage containers due to danger of boilover.

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 ignition sources where they may ignite or explode.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

No unusual

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 REGULATORY INFORMATION) notify the National Response Center.

Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust.

Recover by pumping (use an explosion proof or hand pump) or with a

Continues on page 3

MATERIAL SAFETY DATA SHEET

TWIN DEGREASER #114

PAGE: 3
DATE PREPARED: MAY 23, 1996
MSDS NO.: 92849691

suitable absorbent.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL

Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear.

Remove from surface by skimming or with suitable adsorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD:

Yes, use proper grounding procedure.

Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lighting, and Stray Currents" (American Petroleum Institute, 1720 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101).

STORAGE TEMPERATURE, °F:

Ambient

LOADING/UNLOADING TEMPERATURE, °F:

Ambient

STORAGE/TRANSPORT PRESSURE, mmHg:

Atmospheric

LOADING/UNLOADING VISCOSITY, cst:

2.1

STORAGE AND HANDLING:

Keep container closed. Handle and open containers with care.

Store in a cool, well ventilated place away from incompatible materials.

Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight.

Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures.

Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures, or is agitated.

PERSONAL PROTECTION

For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.

Where contact may occur, wear safety glasses with side shields.

Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may

Continues on page 4

MATERIAL SAFETY DATA SHEET

TWIN DEGREASER #114

PAGE: 4
DATE PREPARED: MAY 23, 1996
MSDS NO.: 92849691

be necessary to prevent overexposure by inhalation.
WORKPLACE EXPOSURE GUIDELINES
EXXON RECOMMENDS THE FOLLOWING OCCUPATIONAL EXPOSURE LIMITS:
300 ppm total hydrocarbon based on composition.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY, at °F: 0.76 at 60	VAPOR PRESSURE, mmHg at °F: 1 at 68 Approximate 3 at 100
SOLUBILITY IN WATER, wt. % at °F: Less than 0.01 at 77	VISCOSITY OF LIQUID, cSt at °F: 1.7 at 77 Approximate
SP. GRAV. OF VAPOR, at 1 atm (Air=1): 5.40 Calculated	FREEZING/MELTING POINT, °F: Less than -76
EVAPORATION RATE, n-Bu Acetate=1: Less than 0.1	BOILING POINT, °F: 354 to 372

SECTION 10 STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID INSTABILITY:

Not Applicable

HAZARDOUS POLYMERIZATION:

Will not occur

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:

Not Applicable

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

None

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

Please refer to Sections 5, 6, and 15 for disposal and regulatory information.

SECTION 14 TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):

DOT SHIPPING DESCRIPTION: PETROLEUM DISTILLATE, N.O.S., COMBUSTIBLE LIQUID,
UN 1268, III

Continues on page 5

MATERIAL SAFETY DATA SHEET

TWIN DEGREASER, #114

PAGE: 5
DATE PREPARED: MAY 23, 1996
MSDS NO.: 92849691

Note: In containers of 119 gallons capacity or less this product is not regulated by D01.

SECTION 15 REGULATORY INFORMATION

TSCA:

This product is listed on the TSCA Inventory at CAS Registry Number 64742-48-9

Clean Water Act/Oil Pollution Act:

This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.

CERCLA:

If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARA TITLE III:

Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: Fire.

This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.

SECTION 16 OTHER INFORMATION

HAZARD RATING SYSTEMS:

This information is for people trained in:
National Paint & Coatings Association's (NPCA)
Hazardous Materials Identification System (HMIS)
National Fire Protection Association (NFPA 704)
Identification of the Fire Hazards of Materials

	NPCA-HMIS	NFPA 704	KEY
HEALTH	1	1	4 = Severe
FLAMMABILITY	2	2	3 = Serious
REACTIVITY	0	0	2 = Moderate
			1 = Slight
			0 = Minimal