

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION:

IDENTITY: (As used on Label and List) **MasterChem R134a Ester Oil Charge 2+2-MT3026**
Manufacturer/Supplier: Santech Industries, Inc.
Address: 2450 Handley Ederville Rd. Ft. Worth, TX 76118 USA
Phone Number for Information: 1-817-589-1212
Fax Number: 1-817-589-5900
EMERGENCY PHONE NUMBER: 1-800-424-9300 (Chemtrec)

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:

INGREDIENTS:	CAS #	wt. %	TWA (OSHA)	OSHA PEL CEILING LIMITS	ACGIH TLV TWA	ACGIH TLV STEL
1,1,1,2-Tetrafluoroethane	811-97-2	30-70	Not Known Recommended <1000 ppm TWA)	Not Known	Not Known	Not Known

Contains no other ingredients in concentrations >.1% that are now known to be hazardous as defined by OSHA.

SECTION 3 - HEALTH HAZARD INFORMATION:

EMERGENCY OVERVIEW: Content under pressure. "Frostbite-like" effects may occur if the liquid or escaping vapors contact the eyes or skin. Gross inhalation overexposure may cause: Central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness or death.

SECTION 4 - FIRST AND MEASURES:

FIRST AID - EYES: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

SKIN: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and laundry before reuse. Use approved skin lotion to replace lost skin oils. Treat for frost-bite if necessary by gently warming affected area.

INGESTION: Get medical attention! If vomiting occurs, keep head lower than hips prevent aspiration.

INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

SECTION 5 - FIRE FIGHTING MEASURES:**FLAMMABLE PROPERTIES:**

FLASH POINT °F (°C): >300° F.
FLASH POINT METHOD: COC
FLAMMABLE LIMITS IN AIR - LOWER (%): NT
FLAMMABLE LIMITS IN AIR - UPPER (%): Not Determined.
AUTOIGNITION TEMPERATURE °F (°C): Not Determined.
EXTINGUISHING MEDIA: Water fog, carbon dioxide, foam, dry chemical Use water spray to keep containers cool that are exposed to heat or flames.

PROTECTION OF FIRE-FIGHTERS:

SPECIAL FIRE-FIGHTING PROCEDURES: Warning!! Contents under pressure. Container may rupture under fire conditions. Decomposition may occur. Wear approved positive-pressure self-contained breathing apparatus and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide. Carbon Monoxide.

AEROSOL COMMENTS: NFPA Level 1 Aerosol

MasterChem R134a Ester Oil Charge 2+2-MT3026

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

SPILLAGES: Wear protective equipment specified. Contain any liquid from leaking containers. Ventilate spill area. Soak up material with absorbent and place in chemical waste container. Increase area ventilation . Do not puncture or incinerate container. Contents under pressure.

ENVIRONMENTAL PRECAUTIONS: Keep away from drains.

SECTION 7 - HANDLING AND STORAGE:

HANDLING - PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

CAUTION: COMPRESSED GAS. Do not puncture, incinerate or store above 120° F. Do not store in passenger compartment of automobile. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin or eyes. Should not be mixed with air for leak testing or for any other purpose above atmospheric pressure.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION:

ENGINEERING CONTROL: Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Showers.

EYE PROTECTION: Wear safety glasses or goggles to protect against exposure.

SKIN PROTECTION: Avoid skin contact. Wear protective clothing and gloves.

RESPIRATORY PROTECTION: Use in a well ventilated area.

SECTION 9 - PHYSICAL / CHEMICAL PROPERTIES:

APPEARANCE:	Colorless gas with clear to yellow liquid.	pH VALUE:	Not Determined.
ODOR:	MILD ETHER LIKE .	VAPOR DENSITY (AIR):	Not Determined.
VAPOR PRESSURE:	Not Determined.	MELTING/FREEZING:	Not Determined.
BOILING POINT (°F):		BULK DENSITY AT 20:	Not Determined.
SOLUBILITY IN WATER:	NEGLIGIBLE	EVAPORATION RATE:	>1
MOLECULAR WEIGHT:	Mixture	SPECIFIC GRAVITY (H20=1):	Not Determined.
VISCOSITY:	Not Determined	DECOMPOSITION TEMP:	Not Known
VOC CONTENT:	Not Determined.		

SECTION 10 - STABILITY AND REACTIVITY:

CHEMICAL STABILITY: Stable under normal temperatures and pressure.

CONDITIONS TO AVOID: Do not expose to heat or store at temperatures above 120° F

MATERIALS TO AVOID: Avoid contact with acids, basic or oxidizing agents. Avoid contact with alkali or alkaline earth metals.

HAZARDOUS DECOMPOSITION: Carbon monoxide. Carbon dioxide. This material can be decomposed by high temperatures forming hydrofluoric acid and possibly carbonyl fluoride.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11 - TOXICOLOGICAL INFORMATION:

TOXICOLOGY:

INGREDIENTS:	CAS #	wt. %	ROUTE	SPECIES	DOSE
1,1,1,2-Tetrafluoroethane	811-97-2	30-70	Inhalation	Rats	LC50 1500 gm/m3/4H

CARCINOGENICITY:

INGREDIENTS:	CAS #	wt. %	IARC	NTP	OSHA
1,1,1,2-Tetrafluoroethane	811-97-2	30-70	Not Listed	Not Listed	Not Listed

MasterChem R134a Ester Oil Charge 2+2-MT3026

SECTION 12 - ECOLOGICAL INFORMATION:

Ecological testing has not been conducted on the product.

SECTION 13 - DISPOSAL CONSIDERATIONS:

WASTE CLASSIFICATION: Not Determined.

WASTE MANAGEMENT: Not Determined.

Disposal should be made in accordance with federal, state and local regulations.

SECTION 13 - TRANSPORT INFORMATION:

U.S DOT:

PROPER SHIPPING NAME: ORMD Consumer Commodity.
HAZARD CLASS: ORMD
UN/NA NUMBER: NA
DOT PACKING GROUP: NA
DOT PACKING GROUP: NA

IMDG:

PROPER SHIPPING NAME: 1,1,1,2- Tetrafluoroethane
HAZARD CLASS: 2.2
HAZARD SUBCLASS: Not Determined.
UN NUMBER: UN3159
PACKING GROUP: NA
MARINE POLLUTANT: Not Determined.

SECTION 14 - REGULATORY INFORMATION:

U.S. FEDERAL REGULATION:

INGREDIENTS:	CAS #	wt.%	SARA 313	SARA 302	RQ	TPQ
1,1,1,2-Tetrafluoroethane	811-97-2	30-70	Not listed	Not listed	NA	NA

STATE REGULATION:

INGREDIENTS:	CAS #	wt.%	CALIFORNIA PROP 65 CANCER LIST	CALIFORNIA PROP 65 DEVELOPMENTAL TOXICITY	CALIFORNIA PROP 65 REPRODUCTIVE FEMALE	CALIFORNIA PROP 65 REPRODUCTIVE MALE
1,1,1,2-Tetrafluoroethane	811-97-2	30-70	Not listed	Not listed	Not listed	Not listed

The components of this product are listed on the TSCA Inventory.

SECTION 15 - OTHER INFORMATION:

GENERAL NOTES: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

Disclaimer:

The information and recommendations contained herein are based upon tests believed to be reliable. However, Santech Industries Inc. does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. Santech Industries Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.