

Material Safety Data Sheet

Transportation Emergency: 1-800-451-8346

Date last revised: June 7, 2012 Date printed: June 7, 2012

SECTION 1. ----- CHEMICAL IDENTIFICATION-----

CATALOG #: 1300-5-04

NAME: 1,3,3,3-TETRACHLOROPROP-1-ENE

SECTION 2. ---- COMPOSITION/INFORMATION ON INGREDIENTS -----

CAS NUMBER: 15022-22-7

MOLECULAR FORMULA: C₃H₂Cl₄ MOLECULAR WEIGHT: 179.86

SECTION 3. ------HAZARDS IDENTIFICATION -----

LABEL PRECAUTIONARY STATEMENTS

CAUTION: AVOID CONTACT AND INHALATION.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND

TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SEE SECTION 11 FOR MORE INFORMATION.

SECTION 4. ----- FIRST-AID MEASURES-----

INHALATION

WHEN INHALED REMOVE TO FRESH AIR AND SEEK MEDICAL AID.

IF BREATHING IS IRREGULAR OR STOPPED, ADMINISTER ARTIFICIAL RESPIRATION.

IF UNCONSCIOUS PLACE IN RECOVERY POSITION AND SEEK MEDICAL ADVICE.

SKIN CONTACT

WIPE OFF EXCESS MATERIAL AND WASH WITH WATER. CONSULT A PHYSICIAN. EYE CONTACT

PROTECT UNHARMED EYE. RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN IMMEDIATELY. INGESTION

IF VICTIM IS CONSCIOUS RINSE MOUTH WITH WATER, CALL A PHYSICIAN IMMEDIATELY.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

FLASH POINT

NOT ESTABLISHED

SUITABLE EXTINGUISHING MEDIA

USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE. SPECIFIC HAZARDS DURING FIRE FIGHTING

EXTREMELY FLAMMABLE. SOME RISK MAY BE EXPECTED OF HAZARDOUS DECOMPOSITION PRODUCTS. COOL CLOSED CONTAINERS EXPOSED TO FIRE WITH WATER SPRAY. HEATING WILL CAUSE PRESSURE RISE WITH RISK OF BURSTING AND SUBSEQUENT EXPLOSION.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON OXIDES, HYDROGEN FLUORIDE, CARBONYL FLUORIDE, HYDROGEN BROMIDE. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE SUIT. IN CASE OF FIRE: EVACUATE AREA, FIGHT FIRE REMOTELY DUE TO THE RISK OF EXPLOSION.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

PERSONAL PRECAUTIONS

KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. VENTILATE THE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE SUIT.

ENVIRONMENTAL PRECAUTIONS

THE PRODUCT EVAPORATES READILY. PREVENT PRODUCT FROM ENTERING DRAINS. METHODS FOR CLEANING UP

USE LOW-SPARKING HANDTOOLS AND EXPLOSION-PROOF ELECTRICAL EQUIPMENT ALLOW TO EVAPORATE.

ADDITIONAL ADVICE

INFORM THE RESPONSIBLE AUTHORITIES IN CASE OF GAS LEAKAGE, OR OF ENTRY INTO WATERWAYS, SOIL OR DRAINS. PAY ATTENTION TO THE SPREADING OF GASES ESPECIALLY AT GROUND LEVEL (HEAVIER THAN AIR) AND TO THE DIRECTION OF THE WIND.

SECTION 7. ----- HANDLING AND STORAGE-----

HANDLING

MECHANICAL EXHAUST REQUIRED. USE ONLY IN EXPLOSION-PROOF AREAS. PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 °C. DO NOT PIERCE OR BURN, EVEN AFTER USE. KEEP PRODUCT AND EMPTY CONTAINER AWAY FROM HEAT AND SOURCES OF IGNITION. FIRE OR INTENSE HEAT MAY CAUSE VIOLENT RUPTURE OF PACKAGES.

STORAGE

KEEP CONTAINERS TIGHTLY CLOSED IN A COOL, WELL-VENTILATED PLACE. CONTAINERS SHOULD BE PROTECTED AGAINST FALLING DOWN. PROTECT FROM WARMTH. DO NOT STORE AT TEMPERATURE EXCEEDING 50 °C. KEEP AWAY FROM DIRECT SUNLIGHT.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

ENGINEERING MEASURES

HIGHLY EFFECTIVE EXHAUST VENTILATION

PERSONAL PROTECTIVE EQUIPMENT

IN CASE OF INSUFFICIENT VENTILATION WEAR SUITABLE RESPIRATORY EQUIPMENT.

WEAR HEAT INSULATING GLOVES.

GOGGLES.

WEAR SUITABLE PROTECTIVE EQUIPMENT.

HYGIENE MEASURES

PROVIDE ADEQUATE VENTILATION.

DO NOT SMOKE.

WHEN USING DO NOT EAT OR DRINK.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

APPEARANCE AND ODOR

COMPRESSED GAS

PHYSICAL PROPERTIES

BOILING POINT: 144 - 145 °C

DENSITY: 1.51 g/mL @ 20 °C

REFRACTIVE INDEX: 1.505 @ 20 °C

SECTION 10. -----STABILITY AND REACTIVITY -----

CONDITIONS TO AVOID

DO NOT PIERCE OR BURN CYLINDER, EVEN AFTER USE. DO NOT SPRAY ON A NAKED FLAME OR ANY INCANDESCENT MATERIAL. HEAT, FLAMES AND SPARKS.

MATERIALS TO AVOID

ALKALI METALS. LIGHT METALS. FINELY DIVIDED ALUMINUM, ZINC AND/OR MAGNESIUM HAZARDOUS DECOMPOSITION PRODUCTS

CARBON OXIDES, CARBONYL FLUORIDE, HYDROGEN CHLORIDE.

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

ROUTE OF EXPOSURE

MULTIPLE ROUTES: MAY BE HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.

MAY BE IRRITATING TO THE EYES, RESPIRATORY SYSTEM, AND SKIN.

SIGNS AND SYMPTOMS OF EXPOSURE

HIGH VAPOR CONCENTRATIONS MAY CAUSE HEADACHES, DIZZINESS,

DROWSINESS, AND NAUSEA, AND MAY LEAD TO UNCONSCIOUSNESS.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND

TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

DATA NOT AVAILABLE.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. APPROPRIATE METHOD OF DISPOSAL OF CONTAMINATED PACKAGING CAUTION: NO-RETURN CYLINDER. DO NOT REUSE. EMPTY CYLINDER WILL CONTAIN HAZARDOUS RESIDUE. FOLLOW PROPER DISPOSAL TECHNIQUES.

SECTION 14. ----- TRANSPORT INFORMATION -----

DOT

UNRESTRICTED

SECTION 15. ----- REGULATORY INFORMATION -----

EU ADDITIONAL CLASSIFICATION
S: 23-24/25-45
UNITED STATES REGULATORY INFORMATION
TSCA: NOT LISTED ON TSCA INVENTORY; FOR R&D USE ONLY

SECTION 16. ----- OTHER INFORMATION-----

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SYNQUEST LABS, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.