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Material Safety Data Sheet

Transportation Emergency: 1-800-451-8346

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

CATALOG #: 1300-7-Z0
NAME: (Z)-1-CHLORO-3,3-DIFLUOROPROP-1-ENE
SYNONYMS: CIS-1-CHLORO-3,3-DIFLUOROPROP-1-ENE

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

CAS NUMBER: -
MOLECULAR FORMULA: C₃H₃ClF₂
MOLECULAR WEIGHT: 112.51

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

LABEL PRECAUTIONARY STATEMENTS
FLAMMABLE LIQUID AND VAPOR.
IRRITATING TO THE EYES, RESPIRATORY SYSTEM, AND SKIN.

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

RAPID EVAPORATION OF THE LIQUID MAY CAUSE FROSTBITE. IN CASE OF CONTACT WITH LIQUID, THAW FROSTED PARTS WITH WATER, THEN REMOVE CLOTHING CAREFULLY. WASH WITH PLENTY OF WATER WASH CONTAMINATED CLOTHING BEFORE RE-USE. 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

RINSE MOUTH. CALL A PHYSICIAN IMMEDIATELY.

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

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 CORROSIVE AND TOXIC 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.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE SUIT. FURTHER INFORMATION : 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

EXHAUST VENTILATION AT THE OBJECT IS NECESSARY. USE EXPLOSION-PROOF EQUIPMENT. PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 °C. DO NOT PIERCE OR BURN, EVEN AFTER USE. USE ONLY IN EXPLOSION-PROOF AREAS. 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 SUITABLE GLOVES. 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

LOW BOILING LIQUID

PHYSICAL PROPERTIES

NONE ESTABLISHED

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 MONOXIDE, CARBON DIOXIDE, HYDROGEN CHLORIDE GAS AND HYDROGEN FLUORIDE.

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

ROUTE OF EXPOSURE

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

CAN CAUSE RAPID SUFFOCATION.

CONDITIONS AGGRAVATED BY EXPOSURE

REDUCES OXYGEN AVAILABLE FOR BREATHING.

SIGNS AND SYMPTOMS OF EXPOSURE

RAPID EVAPORATION OF THE LIQUID MAY CAUSE FROSTBITE.

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 -----

UN#: 1993
CLASS: 3
PACKING GROUP: II

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

EU DIRECTIVES CLASSIFICATION
HAZARD SYMBOL(S): F, Xi
HAZARD INDICATION: FLAMMABLE. IRRITANT.
RISK PHRASE(S) - 11-36/37/38
SAFETY PHRASE(S) - 9-16-23-24/25-26-33-36/37/39-45
UNITED STATES REGULATORY INFORMATION
TSCA INVENTORY ITEM: NO

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.