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Material Safety Data Sheet

Transportation Emergency: 1-800-451-8346

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

CATALOG #: 1300-7-25

NAME: 1-CHLORO-3,3,3-TRIFLUOROPROPENE-1

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

CAS NUMBER: 2730-43-0

MOLECULAR FORMULA: C₃H₂ClF₃

MOLECULAR WEIGHT: 150.5

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

LABEL AND PRECAUTIONARY STATEMENTS

LIQUID OR GAS UNDER PRESSURE

CAN CAUSE ANESTHETIC EFFECTS.

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

ORAL EXPOSURE

NOT A USUAL ROUTE OF EXPOSURE

INHALATION EXPOSURE

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE

ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

DERMAL EXPOSURE

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS

AMOUNTS OF WATER.

EYE EXPOSURE

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS

OF WATER FOR AT LEAST 15 MINUTES.

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

FLASH POINT

NOT ESTABLISHED.

SPECIFIC HAZARDS

EXPOSURE TO FIRE MAY CAUSE CYLINDER TO RUPTURE/EXPLODE.

HAZARDOUS COMBUSTION PRODUCTS

IF INVOLVED IN A FIRE THE FOLLOWING TOXIC AND/OR CORROSIVE FUMES MAY BE PRODUCED BY THERMAL DECOMPOSITION: CARBON OXIDES, CARBONYL FLUORIDE, HYDROGEN FLUORIDE, HYDROGEN CHLORIDE.

EXTINGUISHING MEDIA

ALL KNOWN EXTINGUISHANTS CAN BE USED.

SPECIFIC METHODS

IF POSSIBLE, STOP FLOW OF PRODUCT. MOVE AWAY FROM THE CYLINDER AND COOL WITH WATER FROM A PROTECTED POSITION. DO NOT EXTINGUISH A LEAKING GAS FLAME UNLESS ABSOLUTELY NECESSARY. SPONTANEOUS/EXPLOSIVE RE-IGNITION MAY OCCUR. EXTINGUISH ANY OTHER FIRE.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

USE SELF-CONTAINED BREATHING APPARATUS AND CHEMICALLY PROTECTIVE CLOTHING.

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

PERSONAL PRECAUTIONS

WEAR SELF-CONTAINED BREATHING APPARATUS WHEN ENTERING AREA UNLESS ATMOSPHERE IS PROVED TO BE SAFE. EVACUATE AREA. ENSURE ADEQUATE AIR VENTILATION. ELIMINATE IGNITION SOURCES.

ENVIRONMENTAL PRECAUTIONS

TRY TO STOP RELEASE. PREVENT FROM ENTERING SEWERS, BASEMENTS AND WORKPITS, OR ANY PLACE WHERE ITS ACCUMULATION CAN BE DANGEROUS.

CLEAN UP METHODS

VENTILATE AREA.

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

PRECAUTIONS TO BE TAKEN IN HANDLING

SECURE CYLINDER WHEN USING TO PROTECT FROM FALLING. USE SUITABLE HAND TRUCK TO MOVE CYLINDERS. NO PART OF CYLINDER SHOULD BE EXPOSED TO TEMPERATURES ABOVE 52 °C.

PRECAUTIONS TO BE TAKEN IN STORAGE

STORE IN WELL VENTILATED AREAS. KEEP VALVE PROTECTION CAP ON CYLINDERS WHEN NOT IN USE. STORE AWAY FROM HEAT.

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

ENGINEERING CONTROLS

PROVIDE ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION TO AVOID ASPHYXIATION.

EYE / FACE PROTECTION

SAFETY GLASSES

SKIN PROTECTION

PROTECTIVE GLOVES TO PREVENT CONTACT WITH COLD EQUIPMENT.

RESPIRATORY PROTECTION

USE A SELF-CONTAINED BREATHING APPARATUS IN CASE OF EMERGENCY OR NON-ROUTINE USE.

OTHER PROTECTIVE EQUIPMENT

SAFETY SHOES WHEN HANDLING CYLINDERS.

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

APPEARANCE AND ODOR

CLEAR, COLORLESS LOW BOILING LIQUID

PHYSICAL PROPERTIES

BOILING POINT: 21°C

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

STABILITY

STABLE UNDER NORMAL STORAGE CONDITIONS.

CONDITIONS TO AVOID

STORAGE IN POORLY VENTILATED AREAS.

MATERIALS TO AVOID

AVOID CONTACT WITH OXIDANTS.

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION:

TOXIC CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN CHLORIDE, AND HYDROGEN FLUORIDE MAY BE GIVEN OFF.

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

ROUTE OF EXPOSURE

SKIN CONTACT: CAUSES SKIN IRRITATION.

MULTIPLE ROUTES: VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES, AND UPPER RESPIRATORY TRACT. MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.

SIGNS AND SYMPTOMS OF EXPOSURE

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
DO NOT DISCHARGE INTO AREAS WHERE THERE IS A RISK OF FORMING AN
EXPLOSIVE MIXTURE WITH AIR. WASTE GAS SHOULD BE FLARED THROUGH A
SUITABLE BURNER WITH FLASH BACK ARRESTOR. TOXIC AND CORROSIVE GASES
FORMED DURING COMBUSTION SHOULD BE SCRUBBED BEFORE DISCHARGE TO
ATMOSPHERE. DO NOT DISCHARGE INTO ANY PLACE WHERE ITS ACCUMULATION
COULD BE DANGEROUS.

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

DOT
UNRESTRICTED

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

EU ADDITIONAL CLASSIFICATION
RISK STATEMENTS: 44
SAFETY STATEMENTS: 9-38-24/25
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.