Chem-Impex International Inc.

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SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

| CATALOG #: | 31485 |
|----------------------|--|
| NAME: | 2,2,2-Trifluoroethyl trifluoromethanesulfonate |
| SYNONYMS: | Trifluoromethanesulfonic acid 2,2,2-trifluoroethyl ester 2,2,2-Trifluoroethyl triflate |
| 24 HOUR EMERGENCY | (800) 535-5053(USA) |
| TELEPHONE: | 352-323-3500 (INTERNATIONAL) |
| TO REQUEST AN MSDS: | (800) 869-9290 |
| CUSTOMER SERVICE: | (630) 766-2112 |

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS) ACUTE TOXICITY, ORAL (CATEGORY 3), H301 ACUTE TOXICITY, INHALATION (CATEGORY 2), H330 SKIN CORROSION (CATEGORY 1B), H314 SERIOUS EYE DAMAGE (CATEGORY 1), H318 FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS PICTOGRAM



SIGNAL WORD DANGER HAZARD STATEMENT(S) H301 TOXIC IF SWALLOWED.

| H301 | TOXIC IF SWALLOWED. |
|--------------------|---|
| H314 | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. |
| H330 | FATAL IF INHALED. |
| PRECAUTIONARY STAT | TEMENT(S) |
| P260 | DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/ |
| | SPRAY. |
| P264 | WASH SKIN THOROUGHLY AFTER HANDLING. |
| P270 | DO NOT EAT, DRINK OR SMOKE WHEN USING THIS |
| | PRODUCT. |
| P271 | USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. |
| P280 | WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE |
| | PROTECTION/ FACE PROTECTION. |
| P284 | WEAR RESPIRATORY PROTECTION |
| P301 + P310 | IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR |
| | DOCTOR/ PHYSICIAN. |
| P301 + P330 + P331 | IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE |
| F301 + F330 + F331 | VOMITING. |
| P303 + P361 + P353 | IF ON SKIN (OR HAIR): REMOVE/ TAKE OFF IMMEDIATELY |
| 1505 + 1501 + 1555 | ALL CONTAMINATED CLOTHING, RINSE SKIN WITH WATER/ |
| | SHOWER. |
| P304 + P340 | IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT |
| 1501 1510 | REST IN A POSITION COMFORTABLE FOR BREATHING |
| P305 + P351 + P338 | IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL |
| 1505 1551 1550 | MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND |
| | EASY TO DO. CONTINUE RINSING |
| | |
| P310 | IMMEDIATELY CALL A POISON CENTER OR DOCTOR/ |
| | PHYSICIAN. |
| P320 | SPECIFIC TREATMENT IS URGENT (SEE SUPPLEMENTAL |
| | FIRST AID INSTRUCTIONS ON THIS LABEL). |
| P363 | WASH CONTAMINATED CLOTHING BEFORE REUSE. |
| P403 + P233 | STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER |
| D 405 | TIGHTLY CLOSED. |
| P405 | STORE LOCKED UP. |
| P501 | DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED |
| | WASTE DISPOSAL PLANT. |
| HAZARDS NOT | NONE |
| OTHERWISE | INUME |
| OTHERWISE | |

OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| MF: | $C_3H_2F_6O_3S$ |
|-----|-----------------|
| | |

MW: 232.10

CAS-NO. 6226-25-1

PURITY: $\geq 98\%$ (GC)

HAZARDOUS COMPONENTS

| COMPONENT | CLASSIFICATION | CONCENTRATION |
|---|-----------------------------|---------------|
| 2,2,2-Trifluoroethyl trifluoromethanesulfonate | | |
| | ACUTE TOX. 3; ACUTE TOX. 2; | - |
| SKIN CORR. 1B; EYE DAM. 1; | | |
| | H301, H314, H330 | |
| FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION SEE | | |

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

SECTION 4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICECONSULT A PHYSICIAN. SHOW THIS SAFETY DATA
SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT
OF DANGEROUS AREA.

- IF INHALED IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.
- IN CASE OF SKINTAKE OFF CONTAMINATED CLOTHING AND SHOESCONTACTIMMEDIATELY. WASH OFF WITH SOAP AND PLENTY OF
WATER. TAKE VICTIM IMMEDIATELY TO HOSPITAL.
CONSULT A PHYSICIAN.
- IN CASE OF EYERINSE THOROUGHLY WITH PLENTY OF WATER FOR ATCONTACTLEAST 15 MINUTES AND CONSULT PHYSICIAN.
CONTINUE RINSING EYES DURING TRANSPORT TO
HOSPITAL.
- IF SWALLOWED DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

MOST IMPORTANTTHE MOST IMPORTANT KNOWN SYMPTOMS ANDSYMPTOMS ANDEFFECTS ARE DESCRIBED IN THE LABELLING (SEE
SECTION 2.2) AND/OR IN SECTION 11

EFFECTS, BOTH ACUTE AND DELAYED

INDICATION OF ANYNO DATA AVAILABLEIMMEDIATE MEDICALATTENTION ANDSPECIAL TREATMENTNEEDED

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

| SUITABLE | USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY |
|----------------------|--|
| EXTINGUISHING MEDIA | CHEMICAL OR CARBON DIOXIDE. |
| | |
| SPECIAL HAZARDS | NO DATA AVAILABLE |
| ARISING FROM THE | |
| SUBSTANCE OR MIXTURE | |
| | |
| ADVICE FOR | WEAR SELF-CONTAINED BREATHING APPARATUS FOR |
| FIREFIGHTERS | FIREFIGHTING IF NECESSARY. |

FURTHER INFORMATION NO DATA AVAILABLE

SECTION 6. ACCIDENTAL RELEASE MEASURES

| PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES | WEAR RESPIRATORY PROTECTION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. FOR PERSONAL PROTECTION SEE SECTION 8. |
|--|--|
| ENVIRONMENTAL PRECAUTIONS | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. |
| METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP | SOAK UP WITH INERT ABSORBENT MATERIAL AND DISPOSE OF AS HAZARDOUS WASTE. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL |
| REFERENCE TO OTHER SECTIONS | FOR DISPOSAL SEE SECTION 13. |

SECTION 7. HANDLING AND STORAGE

| PRECAUTIONS FOR SAFE HANDLING | AVOID CONTACT WITH SKIN AND EYES. AVOID INHALATION OF VAPOUR OR MIST. FOR PRECAUTIONS SEE SECTION 2.2. |
|--|--|
| CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES | KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. CONTAINERS WHICH ARE OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. |
| | RECOMMENDED STORAGE TEMPERATURE: Store at 0 - 8 °C |
| | HANDLE AND STORE UNDER INERT GAS. MOISTURE SENSITIVE. |
| SPECIFIC END USE(S) | APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

EXPOSURE CONTROLS

| APPROPRIATE | AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH |
|-------------|--|
| ENGINEERING | HANDS BEFORE BREAKS AND IMMEDIATELY AFTER |
| CONTROLS | HANDLING THE PRODUCT. |

PERSONAL PROTECTIVE EQUIPMENT

- EYE/FACETIGHTLY FITTING SAFETY GOGGLES. FACESHIELD (8-INCHPROTECTIONMINIMUM). USE EQUIPMENT FOR EYE PROTECTION TESTEDAND APPROVED UNDER APPROPRIATE GOVERNMENTSTANDARDS SUCH AS NIOSH (US) OR EN 166(EU).
- SKIN PROTECTIONHANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR
TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE
(WITHOUT TOUCHING GLOVE''S OUTER SURFACE) TO AVOID
SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF
CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH
APPLICABLE LAWS AND GOOD LABORATORY PRACTICES.
WASH AND DRY HANDS.

| BODY PROTECTION | COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE |
|------------------------|--|
| | TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED |
| | ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE |
| | DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE. |
| RESPIRATORY | WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING |
| PROTECTION | RESPIRATORS ARE APPROPRIATE USE A FULL-FACE PARTICLE |
| | RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143) RESPIRATOR |
| | CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF |
| | THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A |
| | FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS |
| | AND COMPONENTS TESTED AND APPROVED UNDER |
| | APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH |
| | (US) OR CEN (EU). |
| CONTROL OF | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO |
| ENVIRONMENTAL | SO. DO NOT LET PRODUCT ENTER DRAINS. |
| EXPOSURE | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| INFORMATION ON DASIC | PHYSICAL AND CHEMICAL PROPERTIES |
|------------------------|--|
| APPEARANCE | Clear colorless to yellow liquid |
| ODOUR | NO DATA AVAILABLE |
| ODOUR THRESHOLD | NO DATA AVAILABLE |
| PH | NO DATA AVAILABLE NO DATA AVAILABLE |
| MELTING | NO DATA AVAILADLE |
| POINT/FREEZING POINT | |
| INITIAL BOILING POINT | 91 °C (Lit.) |
| AND BOILING RANGE | 91 C (Lit.) |
| FLASH POINT | > 110 °C |
| EVAPORATION RATE | NO DATA AVAILABLE |
| FLAMMABILITY (SOLID, | NO DATA AVAILABLE NO DATA AVAILABLE |
| GAS) | NO DAIA AVAILADLE |
| UPPER/LOWER | NO DATA AVAILABLE |
| FLAMMABILITY OR | NO DAIA AVAILADLE |
| EXPLOSIVE LIMITS | |
| VAPOUR PRESSURE | NO DATA AVAILABLE |
| VAPOUR DENSITY | NO DATA AVAILABLE |
| RELATIVE DENSITY | 1.61 |
| WATER SOLUBILITY | NO DATA AVAILABLE |
| PARTITION COEFFICIENT: | NO DATA AVAILABLE |
| N- OCTANOL/WATER | |
| AUTO-IGNITION | NO DATA AVAILABLE |
| TEMPERATURE | |
| DECOMPOSITION | NO DATA AVAILABLE |
| TEMPERATURE | |
| VISCOSITY | NO DATA AVAILABLE |
| EXPLOSIVE PROPERTIES | NO DATA AVAILABLE |
| OXIDIZING PROPERTIES | NO DATA AVAILABLE |
| | |

SECTION 10. **STABILITY AND REACTIVITY**

| REACTIVITY | NO DATA AVAILABLE |
|--|--|
| CHEMICAL STABILITY | STABLE UNDER RECOMMENDED STORAGE CONDITIONS. |
| POSSIBILITY OF HAZARDOUS REACTIONS | NO DATA AVAILABLE |
| CONDITIONS TO AVOID | NO DATA AVAILABLE |
| INCOMPATIBLE MATERIALS | OXIDIZING AGENTS, ACIDS, BASES, WATER |
| HAZARDOUS DECOMPOSITION PRODUCTS | HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS CARBON OXIDES, SULPHUR OXIDES, HYDROGEN FLUORIDE OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE IN THE EVENT OF FIRE: SEE SECTION 5 |

SECTION 11. **TOXICOLOGICAL INFORMATION**

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY NO DATA AVAILABLE

> LC50 INHALATION - RAT - 6 H - 876 PPM REMARKS: BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD. LUNGS, THORAX, OR **RESPIRATION: OTHER CHANGES.** BLOOD:HEMORRHAGE

DERMAL: NO DATA AVAILABLE

NO DATA AVAILABLE

SKIN NO DATA AVAILABLE **CORROSION/IRRITATION**

SERIOUS EYE **DAMAGE/EYE IRRITATION**

NO DATA AVAILABLE

| RESPIRATORY OR SKIN SENSITISATION | NO DATA AVAILABLE |
|--|---|
| GERM CELL MUTAGENICITY | NO DATA AVAILABLE |
| CARCINOGENICITY IARC: | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED |
| ACGIH: | HUMAN CARCINOGEN BY IARC. NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH. |
| NTP: | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS |
| OSHA: | IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP. NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA. |
| REPRODUCTIVE TOXICITY | NO DATA AVAILABLE |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | NO DATA AVAILABLE |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | NO DATA AVAILABLE |
| ASPIRATION HAZARD | NO DATA AVAILABLE |
| ADDITIONAL INFORMATION | RTECS: PB2775000 |
| | BURNING SENSATION, COUGH, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, SPASM, INFLAMMATION AND EDEMA OF THE LARYNX, SPASM, INFLAMMATION AND EDEMA OF THE BRONCHI, PNEUMONITIS, PULMONARY EDEMA, MATERIAL IS EXTREMELY DESTRUCTIVE TO |

SECTION 12. ECOLOGICAL INFORMATION

| ΤΟΧΙCITY | NO DATA AVAILABLE |
|---------------------------------------|--|
| PERSISTENCE AND DEGRADABILITY | NO DATA AVAILABLE |
| BIOACCUMULATIVE POTENTIAL | NO DATA AVAILABLE |
| MOBILITY IN SOIL | NO DATA AVAILABLE |
| RESULTS OF PBT AND VPVB ASSESSMENT | PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED |
| OTHER ADVERSE EFFECTS | NO DATA AVAILABLE |

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

| PRODUCT | OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. |
|--------------|---|
| CONTAMINATED | DISPOSE OF AS UNUSED PRODUCT. |

PACKAGING

SECTION 14. TRANSPORT INFORMATION

| PROPER SHIPPING NAME: | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2,2 |
|-----------------------|--|
| | Trifluoroethyl trifluoromethanesulfonate) |
| UN NUMBER: | 3265 |
| CLASS: | 8 |
| PACKING GROUP: | II |
| MARINE POLLUTANT: | NO |
| POISON INHALATION | NO |
| HAZARD: | |

IMDG

| PROPER SHIPPING NAME: | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2,2- Trifluoroethyl trifluoromethanesulfonate) |
|-----------------------|--|
| UN NUMBER: | 3265 |
| CLASS: | 8 |
| PACKING GROUP: | II |
| EMS-NO: | F-A, S-B |
| MARINE POLLUTANT: | NO |
| IATA | |
| PROPER SHIPPING NAME: | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2,2- Trifluoroethyl trifluoromethanesulfonate) |
| UN NUMBER: | 3265 |
| CLASS: | 8 |
| PACKING GROUP: | II |

SECTION 15. REGULATORY INFORMATION

| SARA 302 COMPONENTS | NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302. |
|---------------------|--|
| SARA 313 COMPONENTS | THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313. |

SARA 311/312 HAZARDS

ACUTE HEALTH HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

| | CAS-NO. |
|---------------------------|-----------|
| 2,2,2-Trifluoroethyl | 6226-25-1 |
| trifluoromethanesulfonate | |

REVISION DATE

NEW JERSEY RIGHT TO KNOW COMPONENTS

| | CAS-NO. | REVISION DATE |
|---------------------------|-----------|----------------------|
| 2,2,2-Trifluoroethyl | 6226-25-1 | |
| trifluoromethanesulfonate | | |

CALIFORNIA PROP. 65 COMPONENTS

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM.

SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

| ACUTE TOX. EYE DAM. H301 | ACUTE TOXICITY SERIOUS EYE DAMAGE TOXIC IF SWALLOWED. |
|---|--|
| H314 H318 | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. CAUSES SERIOUS EYE DAMAGE. |
| H330 | FATAL IF INHALED. |
| SKIN CORR. | SKIN CORROSION |
| HMIS RATING HEALTH HAZARD: CHRONIC HEALTH HAZARD: | 3 |
| FLAMMABILITY: | 0 |
| PHYSICAL HAZARD | 0 |
| NFPA RATING HEALTH HAZARD: | 3 |

| MSDS LEGEND | |
|-------------|--|
| MW: | MOLECULAR WEIGHT |
| MF: | MOLECULAR FORMULA |
| VOC: | VOLATILE ORGANIC COMPOUNDS |
| ACGIH: | AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL |
| | HYGINISTS |
| CAS: | CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER |
| OSHA: | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
| PEL: | PERMISSIBLE EXPOSURE LIMIT (OSHA) |
| TLV: | THRESHOLD LIMIT VALUE (ACGIH) |

0

0

IMPORTANT:

FIRE HAZARD:

REACTIVITY HAZARD:

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