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SECTION I - GENERAL INFORMATION

Table with 2 columns: CHEMICAL NAME & SYNONYMS, TRADE NAME & SYNONYMS. Includes chemical family (CHLORINATED HYDROCARBON), formula (X <-- MIXTURE), manufacturer's name (CHEMSEARCH DIV. OF NCH CORP.), address (IRVING, TX 75015), and product/emergency information.

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Table listing hazardous ingredients: 1,1,1-TRICHLOROETHANE, DIMETHOXYMETHANE, TERT-BUTYL ALCOHOL, and CARBON DIOXIDE. Each entry includes hazard levels, TLV, PEL, and CAS numbers.

SECTION III - PHYSICAL DATA

Table of physical data including boiling point (165xF), vapor pressure (100), density (4.6), and solubility (NEGLECTIBLE).

SECTION IV - FIRE AND EXPLOSION HAZARD

Table of fire and explosion hazards including flash point (NON-FLAM), flammable limits (1,1,1 TRICHLOROETHANE), and extinguishing media (ALCOHOL, FOAM, CO2, DRY CHEMICAL, WATER SPRAY).

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:
NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

EFFECTS OF OVEREXPOSURE :
- ACUTE - (SHORT TERM EXPOSURE)
EYE CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS. MAY ALSO CAUSE TRANSIENT CORNEAL INJURY AND PAIN.
SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS. PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION, DRYING, DERMATITIS, OR FLAKING OF SKIN. MAY BE SEVERELY IRRITATING IF CONFINED TO THE SKIN BY GLOVES, CLOTHING, ETC. AND CAN LEAD TO ABSORPTION OF THE PRODUCT THROUGH THE SKIN.
INHALATION: AT LOW LEVELS OF CONCENTRATION, INITIAL SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS, NAUSEA, LOSS OF CONCENTRATION, NARCOTIC OR ANESTHETIC EFFECTS, AND IRRITATION. WITH HIGH EXPOSURE LEVELS, CENTRAL NERVOUS SYSTEM DEPRESSION, AND DECREASED BODY WEIGHT MAY OCCUR. EXCESSIVELY HIGH LEVELS MAY CAUSE UNCONSCIOUSNESS, CARDIAC SENSITIZATION AND DEATH.
INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION. INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

- CHRONIC - (LONG TERM EXPOSURE)
NO CHRONIC DATA AVAILABLE.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS.
TARGET ORGANS: CENTRAL NERVOUS SYSTEM AND LIVER

PRIMARY ROUTE OF ENTRY: X<-- INHALATION <-- INGESTION <-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES
INHALATION :
REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

EYE CONTACT:
RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

SKIN CONTACT:
WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES.

SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INGESTION :
GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

NOTES TO PHYSICIAN :
INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL. IF GASTRIC LAVAGE IS PERFORMED, ESOPHAGEAL AND/OR ENDOTRACHEAL CONTROL SHOULD BE CONSIDERED. EXPOSURE MAY INCREASE "MYOCARDIAL IRRITABILITY". DO NOT ADMINISTER SYMPATHOMIMETIC DRUGS (EPINEPHRINE) UNLESS ABSOLUTELY NECESSARY. NO SPECIFIC ANTIDOTE.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC <--YES NTP <--YES OSHA <--YES ACGIH <--YES OTHER <--YES
X<--NO NTP X<--NO OSHA X<--NO ACGIH X<--NO OTHER X<--NO

1,1,1-TRICHLOROETHANE
ORL-RAT LD50: 10300MG/KG 3.
ORL-RBT LD50: 5660MG/KG 3.
SKN-RBT 500MG/24H MDD 3.
EYE-RBT 2MG/24H SEV 3.
SKN-RBT LD50: >15 G/KG 4.
INH-RAT LC50: 14,250 PPM/7HR 4.
DIMETHOXYMETHANE
IHL-RAT LC50: 15000 PPM 3.
ORL-RBT LD50: 5708 MG/KG 3.
SCU-GPG LDLO: 3013 MG/KG 3.
TERT-BUTYL ALCOHOL
ORL-RAT LD50: 3500 MG/KG 3.
ORL-RBT LD50: 3559 MG/KG 3.
CARBON DIOXIDE
IHL-RAT TCLD: 6PPM/24H (10D PREG) 3
IHL-HMN LCLD: 100000 PPM/1M 3.
IHL-RAT LCLD: 657190 PPM/15M 3.
TERATOLOGY: EXPOSURES OF 1,1,1-TRICHLOROETHANE HAVING NO EFFECTS ON THE MOTHER SHOULD HAVE NO EFFECT ON THE FETUS. TERT-BUTYL ALCOHOL WAS TOXIC TO THE FETUS AT DOSES TOXIC TO THE MOTHER, BUT DID NOT PRODUCE BIRTH DEFECTS. 4.
REPRODUCTIVE EFFECTS: IN ANIMAL STUDIES, 1,1,1-TRICHLOROETHANE HAS NOT INTERFERED WITH REPRDUCTION. 4.
MUTAGENICITY: RESULTS OF IN VITRO TESTS HAVE BEEN NEGATIVE FOR 1,1,1 TRICHLOROETHANE AND TERT-BUTYL ALCOHOL. RESULTS OF MUTAGENICITY TESTS IN ANIMALS HAVE BEEN NEGATIVE FOR 1,1,1 TRICHLOROETHANE. 4.

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CHRONIC OVEREXPOSURE TO 1,1,1-TRICHLOROETHANE HAS CAUSED LIVER EFFECTS IN EXPERIMENTAL ANIMALS. 4.

SECTION VII - REACTIVITY DATA

STABILITY | X <--STABLE <--UNSTABLE | CONDITIONS TO AVOID

AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY (MATERIALS TO AVOID) :
STRONG ALKALIES, OXIDIZERS, ALUMINUM, AND OTHER REACTIVE METALS,
ALUMINUM AND ZINC POWDERS, OR PROLONGED CONTACT WITH FREE WATER.

HAZARDOUS DECOMPOSITION PRODUCTS
HYDROGEN CHLORIDE, PHOSGENE, AND CHLORINE.

HAZARDOUS POLYMERIZATION | WILL NOT MAY | CONDITIONS TO AVOID
X <--OCCUR <--OCCUR
NONE KNOWN.

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR
A SMALL SPILL, ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL
INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR APPROPRIATE PROTECTIVE
CLOTHING.

WASTE DISPOSAL METHOD(S):
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

NEUTRALIZING AGENT :
NONE KNOWN.

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION :

LOCAL EXHAUST VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM
OPERATIONS THAT CAN GENERATE VAPORS.

RESPIRATORY PROTECTION :
A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR
EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE MISTING EXISTS.

GLOVE PROTECTION :
POLYVINYL ALCOHOL OR VITON RUBBER GLOVES IF
REPEATED OR PROLONGED SKIN CONTACT IS LIKELY.

EYE PROTECTION :
SAFETY GLASSES IF THE METHOD OF
USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

OTHER PROTECTION :
WEAR GENERAL DUTY WORK CLOTHING AND SHOES.

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE INDOOR HEATED REFRIGERATED OUTDOOR
MAX: 100x F MIN: 32x F X

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
AVOID BREATHING THE VAPORS. STORE IN A COOL DRY

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(CONTINUED) - SECTION X - STORAGE AND HANDLING INFORMATION

PLACE VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS ARE SUSPECTED. DO NOT USE WITH POWDERED ZINC OR ALUMINUM.

OTHER PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S NUMBER	UPPER % LIMIT
1,1,1-TRICHLOROETHANE	71-55-6	95
TERT-BUTYL ALCOHOL	75-65-0	5

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

IF USE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND LABELED FOR MAINTAINING MOTOR VEHICLES.

CALIFORNIA PROPOSITION 65

WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE (1)CANCER OR (2)BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:
ETHYLENE DICHLORIDE (1) AS A TRACE CONTAMINANT.

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

LABELS	LIMITED QTY
UNIT CONTAINER	
DOT SPS CONTAINER	NET EXPLOSIVE WT.
AEROSOL PROPELLANT(S)	

SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL INDICES, ACGIH, 1994-1995.
2. OSHA PEL.
3. SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, EIGHTH EDITION, RICHARD J. LEWIS SR.
4. VENDOR'S MSDS.

* SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS PUBLISHED IN THE FEDERAL REGISTER/VOL. 54 NO. 12, 1-19-89

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