Address:FINDERNE AVE Box:6500

City:BRIDGEWATER

State:NJ ZIP:08807 Country:US

Info Phone Num:908-685-5000

Emergency Phone Num:908-685-5000 Preparer's Name:PHILIP A TOSCANO

CAGE:85091

=== Contractor Identification ===

Company Name: NATIONAL STARCH AND CHEMICAL CORP

Address:10 FINDERNE AVE

Box:6500

City:BRIDGEWATER

State:NJ ZIP:08807 Country:US

Phone:908-685-5379; FAX:908685-5306

CAGE:85091

======= Composition/Information on Ingredients ========

Ingred Name:1,1,1-TRICHLOROETHANE (SARA III) (ORAL LD50 10

300 MG/KG

RAT; LC50 24000 PPM/1 HR RAT)

CAS:71-55-6

RTECS #:KJ2975000 Fraction by Wt: 95.8%

Other REC Limits:*CEIL:350 PPM 15 MIN

OSHA PEL:350 PPM

ACGIH TLV:350PPM;STEL 450PPM *

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ozone Depleting Chemical:1

Ingred Name: CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000 Fraction by Wt: 4%

Other REC Limits: NONE SPECIFIED

OSHA PEL:10000 PPM

ACGIH TLV:5000PPM;STEL30000PPM

nhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE: IRRITATING, INJURE TISSUE IF NOT REMOVED PROMPTLY. SKIN: REPEATED/PROLONGED CONTACT: DEFATTING (IRRITATION/DRYNESS). INHALATION: IRRITATING TO EYES, RESP TRACT. HEADACHE, DIZZINESS, ANESTHETIC, C ENTRAL NERVOUS SYSTEM EFFECTS. ASPHYXIANT. INGESTION: TOXIC. MOUTH, THROAT & STOMACH IRRIT, GASTRIC TRACT DAMAGE/DISORDE Effects of Overexposure:CHRONIC: MINIMAL KIDNEY OR LIVER DAMAGE FROM LONG TERM INHALATION OF AMOUNTS EXCEEDING TLV. MAY CAUSE SKIN IRRITATION. TARGET ORGANS: SKIN, EYES, KIDNEYS, LIVER.
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First Aid:EYE: IMMED FLUSH W/WATER 15 MIN, LIF EYELIDS. GET PROMPT MED AID. SKIN: WASH W/SOAP & WATER. IN CASE OF COLD BURNS, GET PROMPT MED AID. INHAL: REMOVE TO FRESH AIR. IF BREATHING DIFFICULT, GIVE OXYGEN. IF BREATHING STOPPED, GIVE ARTIF RESP.GET M ED AID. INGEST:
IF CONSCIOUS, GIVE MILK OR WATER, THEN INDUCE VOMITING. GIVE NOTHING BY MOUTH TO DROWSY/UNCONSCIOUS PERSON. KEEP WARM & QUIET. GET MED AID.
============= Fire Fighting Measures ==============
Flash Point Method:TCC Flash Point:NR Autoignition Temp:Autoignition Temp Text:932 F Lower Limits:7.0
Upper Limits:16.0 Extinguishing Media:DRY CHEMICAL, CO2, ALCOHOL FOAM Fire Fighting Procedures:EQUIP FIRE FIGHTERS WITH SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES. COOL EXPOSED EQUIPMENT WITH WATER SPRAY. Unusual Fire/Explosion Hazard:AEROSOL CONTAINER MAY RUPTURE OR BURST IF
HEATED ABOVE 120F OR 48C.
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Spill Release Procedures:TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE IN CONTAINER FOR LATER DISPOSAL.
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RE AT LESS THAN 120F. AVOID EXCESSIVE HEAT. STORE IN A COOL, DRY PLACE. DO NOT PUNCTURE OR INCINERATE AEROSOL CONTAINERS. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: NIOSH APPROVED RESPIRATOR IF REQUIRED. SELF-CONTAINED BREATHING APPARATUS IN EMERGENCY AND NON-ROUTINE SITUATIONS. Ventilation:LOCAL; GENERAL Protective Gloves: PROTECTIVE GLOVES TO PREVENT CONTACT Eve Protection: SAFETY GLASSES WITH SIDE SHIELDS Other Protective Equipme nt:REMOVE AND LAUNDER GROSSLY CONTAMINATED CLOTHING BEFORE REUSE. Work Hygienic Practices: WASH HANDS BEFORE EATING, DRINKING, SMOKING OR USING RESTROOM FACILITIES. Supplemental Safety and Health ======== Physical/Chemical Properties =========== Vapor Pres:100 @ 20C Vapor Density:4.6 Spec Gravity:1.210 (WATER=1) Evaporation Rate & Evaporation R Solubility in Water: INSOLUBLE Percent Volatiles by Volume:100 ======== Stability and Reactivity Dat a ========= Stability Indicator/Materials to Avoid:YES CHEMICALLY ACTIVE METALS (ALUMINUM POWDER, SODIUM, POTASSIUM, MAGNESIUM POWDER) AND THEIR HYDROXIDES. Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, CHLORINE COMPOUNDS, HYDROCARBONS OF INDETERMINATE NATURE (DEPENDING ON CONDITIONS).

======= Disposal Considerations ============

Waste Disposal Methods: WASTE DISPOSAL SHOULD BE IN ACCORDANCE WITH EXISTING FEDERAL, STATE AND LO

CAL ENVIRONMENTAL REGULATIONS.

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