Product ID:QUICKBOND 500 ACTIVATOR MSDS Date:02/07/1992 FSC:2540 NIIN:01-086-5433 **MSDS Number: BSTYR** === Responsible Party === Company Name:NATIONAL STARCH AND CHEMICAL CORP Address:10 FINDERNE AVE City:BRIDGEWATER State:NJ ZIP:08807 Country:US CAGE:85091 === Contractor Identificati on === 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 Ingred Name:METHYL CHLOROFORM (1,1,1-TRICHLOROEHANE) (SARA III) CAS:71-55-6 RTECS #:KJ2975000 Fraction by Wt: 92% % Other REC Limits:NONE RECOMMENDED OSHA PEL:350 PPM ACGIH TLV:350 PPM/450STEL;9394 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ozone D

epleting Chemical:1

Ingred Name:TRIBUTYLAMINE CAS:102-82-9 RTECS #:YA0350000 Fraction by Wt: > 1% Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER NAPHTHENATE (NAPHTHENIC ACID, COPPER SALT) CAS:1338-02-9 RTECS #:QK9100000 Fraction by Wt: > 1% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 AS CU DUST ACGIH TLV:1 MG/M3 AS CU DUST

Ingred Name:FORMALDEHYDE (SARA III) CAS:50-00-0 RTECS #:LP8925000 Fraction by Wt: < 1% Other REC Limits:NONE RECOMMENDED OSHA PEL:SEE 1910.1048 ACGIH TLV:C 0. 3 PPM; A2; 9394 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

LD50 LC50 Mixture:LD50 ORAL = 42 MG/KG (MOUSE) Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:IRRITATING TO EYES, MAY INJURE EYE TISSUE IF NOT REMOVED PROMPTLY. REPEATED OR PROLONGED CONTACT WITH SKIN MAY CAUSE DEFATTING OF THE SKIN, WHICH MAY LEAD TO IRRITATION AN D/OR DRYNESS. HIGH VAPOR CONC ENTRATIONS ARE IRRITATING TO EYES AND UPPER RESPIRATORY TRACT AND MAY CAUSE CENTRAL NERVOUS SYSTEM DISTURBANCES.

Explanation of Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:EYE IRRITATION, INJURED EYE TISSUE, SKIN IRRITATION/DRYNESS, DIZZINESS, HEADACHE, ANESTHETIC SYMPTOMS, RESPIRATORY TRACT IRRITATION.

Medical Cond Aggravated b

## y Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:INHALATION: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET. GET MEDICAL ATTENTION. SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. INGESTION: INDUCE VOMITING ONLY IF VICTIM IS ALLERT. GET PROMPT MEDICAL ATTE NTION.

Flash Point Method:TCC Flash Point:>200F,>93C Autoignition Temp:Autoignition Temp Text:998F Lower Limits:8.0 % Upper Limits:10.5 % Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL FOAM Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE. Unusual Fire/Explosion Hazard:NEGL IGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME

Spill Release Procedures:SHUT OFF IGNITION SOURCES. STOP LEAK IF CAN DO SO WITHOUT RISK. TAKE UP WITH SAND OR ABSORBENT MATERIAL. NO SMOKING, FLAMES OF FLARES IN HAZARD AREA. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: STORE BETWEEN 40 AND 90F. PROTECT FROM

FREEZING. STORE AT AMBIENT TEMPERATURES. Other Precautions:REMOVE GROSSLY CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. DISCARD CONTAMINATED SHOES.

Respiratory Protection:NIOSH APPROVED RESPIRATOR IF REQUIRED. SELF-CONTAINED BREATHING APPARATUS IN EMERGENCY AND NON-ROUTINE SITUATIONS. Ventilation:LOCAL: GENERAL. Protective Gloves:REQUIRED. Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS Other Protective Equipm ent:APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBLITY OF SKIN CONTACT. Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING, SMOKING OR USING REST ROOM FACILITIES. Supplemental Safety and Health NONE SPECIFIED BY MANUFACTURER.

HCC:N1 Boiling Pt:B.P. Text:165F,74C Melt/Freeze Pt:M.P/F.P Text:-36F,-38C Vapor Pres:100 Vapor Density:4.6 Spec Gravity:1.3 Evaporation Rate & amp; Reference:> 1 (WAT ER = 1) Solubility in Water:INSOLUBLE Appearance and Odor:AMBER LIQUID, CHLORINATED SOLVENT ODOR Percent Volatiles by Volume:92 %

Stability Indicator/Materials to Avoid:YES
CHEMICALLY ACTIVE METALS (ALUMINUM POWDER, SODIUM, POTASSIUM, MAGNESIUM POWDER) AND THEIR HYDROXIDES
Stability Condition to Avoid:EXTREME TEMPERATURES
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, HYDROCARBONS OF INDETERMINATE NA
TURE, CHLORINE COMPOUNDS

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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