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SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS N/A TRADE NAME & SYNONYMS BIO-PURE  
 CHEMICAL FAMILY AQUEOUS DETERGENT FORMULA X<- MIXTURE  
 MANUFACTURERS NAME: CHEMSEARCH DIV. OF NCH CORP.  
 ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) BOX 152170 IRVING, TEXAS 75015  
 PREPARED BY: RSTOLLEY/T.S.CHEMIST PRODUCT CODE NUMBER 1813 EMERGENCY TELEPHONE NUMBER 214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS.

CHEMICAL NAME (INGREDIENTS) : NONYLPHENOXPOLYETHOXYETHANOL  
 HAZARD --->EYE IRR. TLV--->NOT EST. PEL-->NOT EST.  
 STEL(TWA)\* ->NOT EST. CAS#-->9036-19-5

SECTION IIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE SECRET REGISTRY # 409363-5194P

BIO-PURE

SECTION III - PHYSICAL DATA

BOILING PT.(FAHRENHEIT) 212 SPEC GRAVITY (H2O=1) 1.015  
 VAPOR PRESSURE (MM HG) 18 COLOR GREEN  
 VAPOR DENSITY (AIR=1) 0.6 ODDR MILD  
 PH @ 100% 9.0 CLARITY OPAQUE  
 PERCENT VOLATILE BY VOLUME (%) 85 EVAPORATION RATE (BU AC = 1) 0.10  
 SOLUBILITY IN WATER COMPLETE  
 VISCOSITY SEMI-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED) NON-FLAM FLAMMABLE LIMITS N/A LEL N/A UEL  
 EXTINGUISHING MEDIA "ALCOHOL" DRY WATER  
 <--FOAM <--FOAM <--CO2 <--CHEMICAL X<--SPRAY <--OTHER  
 SPECIAL FIRE FIGHTING PROCEDURES  
 SPRAY EXPOSED CONTAINERS WITH WATER TO REDUCE STEAM PRODUCTION.

UNUSUAL FIRE & EXPLOSION HAZARDS

N/A

NFPA HAZARD RATING (0=INSIGNIFICANT;1=SLIGHT;2=MODERATE;3=HIGH;4=EXTREME):  
 1<--HEALTH 0<--FLAMMABILITY 0<--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)  
 DIRECT CONTACT WITH THE EYES MAY CAUSE IRRITATION.

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 - CHRONIC - (LONG TERM EXPOSURE)  
 DIRECT CONTACT WITH EYES FOR PROLONGED PERIOD OF TIME CAN CAUSE CORNEAL  
 DAMAGE. PROLONGED SKIN CONTACT MAY CAUSE SKIN IRRITATION TO PERSONS  
 WITH SENSITIVE SKIN WHICH COULD LEAD TO DERMATITIS.  
 -----

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

EMERGENCY & FIRST AID PROCEDURES

INHALATION:  
 REMOVE PERSON FROM AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IMMEDIATELY.  
 -----

EYE CONTACT:  
 OBJECT IS TO SEEK MEDICAL ATTENTION IMMEDIATELY. IMMEDIATELY FLUSH WITH  
 PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS APART TO ENSURE  
 FLUSHING OF THE ENTIRE EYE SURFACE. SEEK MEDICAL ATTENTION IF IRRITATION  
 PERSISTS.  
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SKIN CONTACT:  
 WASH WITH PLENTY OF WATER. IF IRRITATION PERSIST SEEK MEDICAL  
 ATTENTION.  
 -----

INGESTION:  
 IF SWALLOWED DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. IF  
 AVAILABLE, GIVE SEVERAL GLASSES OF CITRUS JUICE. NEVER GIVE ANYTHING BY  
 MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY.  
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NOTES TO PHYSICIAN:  
 PRODUCT IS OF INHERENTLY LOW TOXICITY.  
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SECTION VI - TOXICITY INFORMATION

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 PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

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

NONYLPHENOXY POLY ETHOXY ETHANOL  
 LD50 2600MG/KG 1.  
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SECTION VII - REACTIVITY DATA

STABILITY	X<--STABLE	<--UNSTABLE	CONDITIONS TO AVOID
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N/A

INCOMPATIBILITY (MATERIALS TO AVOID)

N/A  
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HAZARDOUS DECOMPOSITION PRODUCTS

OXIDES OF CARBON UPON BURNING.

HAZARDOUS	WILL NOT	MAY	CONDITIONS TO AVOID
X <--OCCUR	<--OCCUR	<--OCCUR	

POLYMERIZATION N/A  
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SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
 FLUSH SURFACE WITH LARGE VOLUMES OF WATER AND FLUSH DOWN  
 DRAIN.  
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WASTE DISPOSAL METHOD  
 DISPOSE OF IN ACCORDANCE WITH STATE, FEDERAL & LOCAL REGULATIONS CONCERNING  
 HEALTH POLLUTION.  
 -----

NEUTRALIZING AGENT

FLUSH WITH LARGE AMOUNTS OF WATER.  
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SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION  
 GOOD INDUSTRIAL HYGIENE PRACTICE DICTATES THAT THE WORK AREAS SHOULD  
 PROVIDE ADEQUATE VENTILATION OR CONTROLS TO MAINTAIN AND MEET OSHA  
 REQUIREMENTS.  
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RESPIRATORY PROTECTION  
 TYPICAL USE OF THIS PRODUCT DOES NOT REQUIRE SPECIAL RESPIRATORY  
 PROTECTION.  
 -----

PROTECTIVE GLOVES  
 GLOVES MAY BE WORN IF USER HAS SENSITIVE  
 SKIN.  
 -----

EYE PROTECTION  
 EYE PROTECTION SHOULD BE WORN IF EXPOSURE  
 IS POSSIBLE.  
 -----

OTHER PROTECTION  
 N/A  
 -----

STORAGE TEMPERATURE  
 120 F. <--MAX 32 F <--MIN INDOOR HEATED REFRIGERATED OUTDOOR  
 X X X  
 PRECAUTIONS TO BE TAKEN IN HANDLING & STORING  
 STORE AT MODERATE TEMPERATURES.  
 OTHER PRECAUTIONS  
 KEEP OUT OF REACH OF CHILDREN.  
 READ ENTIRE LABEL BEFORE USING.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME C.A.S. NUMBER UPPER % LIMIT  
 N/A  
 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:  
 NONE

SECTION XII - TRANSPORTATION \* (FOR FUTURE USE)

APPLICABLE REGULATIONS  
 <--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)  
 SHIPPING NAME  
 HAZARD CLASS ID NUMBER REPORT QTY  
 LABELS LIMITED QTY  
 UNIT CONTAINER

DOT SPS CONTAINER NET EXPLOSIVE WT.  
 AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

1. 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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 OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDED ON THE  
 PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WITH SUCH  
 UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.