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SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS N/A	TRADE NAME & SYNONYMS ND-165
CHEMICAL FAMILY ALKALINE DETERGENT	FORMULA X<--MIXTURE
MANUFACTURERS NAME: NATIONAL CHEMSEARCH DIV. OF NCH CORP.	
ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) BOX 152170 IRVING, TEXAS 75015	
PREPARED BY: KELLY RAHN/T.S.CHEMIST	PRODUCT CODE NUMBER EMERGENCY TELEPHONE NUMBER 1959 214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS AS THE PRODUCT MIXTURE HAS NOT BEEN TESTED AS A WHOLE.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV	PEL	CAS#
SODIUM METASILICATE	SKIN IRR.	2MG/M3 1.	2MG/M3 1.	6834-92-0
TRIPROPYLENE GLYCOL				
MONOMETHYL ETHER	EYE IRR.	NOT EST.	NOT EST.	20924-33-8

SECTION IIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE SECRET REGISTRY # 409363-5004P

ND-165

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SECTION IIA - NON-HAZARDOUS INGREDIENTS

PAGE : 02

SECTION III - PHYSICAL DATA

BOILING PT. (FAHRENHEIT)	210	SPEC GRAVITY (H2O=1)	1.050
VAPOR PRESSURE (MM HG)	17	COLOR	YELLOW-GREEN
VAPOR DENSITY (AIR=1)	6	ODOR	LOW
PH @ 100%	12.2	CLARITY	TRANSPARENT
PERCENT VOLATILE BY VOLUME (%)	95	EVAPORATION RATE (BU AC = 1)	0.10
SOLUBILITY IN WATER	COMPLETE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
NON-FLAMN/A	N/A	N/A	N/A
EXTINGUISHING MEDIA <--FOAM	*ALCOHOL <--FOAM	X<--CD2	DRY X<--CHEMICAL
			WATER X<--SPRAY
			<--OTHER

SPECIAL FIRE FIGHTING PROCEDURES
WEAR NIOSH/MSHA APPROVED RESPIRATOR WHEN FIGHTING FIRES IN CONFINED AREAS TO PREVENT EXPOSURE TO ACRID SMOKE AND HAZARDOUS DECOMPOSITION PRODUCTS.

UNUSUAL FIRE & EXPLOSION HAZARDS
NONE KNOWN

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)
 ACUTE EXPOSURE FROM THIS ALKALINE MIXTURE MAY RESULT IN REDDENING OF THE SKIN, MODERATE IRRITATION & POSSIBLE DISCOMFORT. IRRITATING BY INHALING SPRAY MIST TO UPPER RESPIRATORY TRACT OR OTHER MUCCOUS MEMBRANE AREAS. EYE CONTACT PRODUCES TEARING, IRRITATION & DISCOMFORT. ACCIDENTAL INGESTION MAY CAUSE NAUSEA, DIARRHEA AND IRRITATION OF INTESTINAL LINING.

- CHRONIC - (LONG TERM EXPOSURE)
 LONG-TERM MISUSE RESULTING FROM AIRBORNE CONCENTRATIONS OF MIST OR SPRAY MAY CAUSE DAMAGE TO UPPER RESPIRATORY TRACT. CHRONIC EFFECTS MAY RESULT IN SUPERFICIAL DESTRUCTIVE OF SKIN TISSUE AND DERMATITIS. CHRONIC EYE EXPOSURE CAN LEAD TO DESTRUCTION OF EYE TISSUE TO BLINDNESS. PERSONS WITH AGGRAVATED SKIN CONDITIONS OR RESPIRATORY TRACT DISEASE MAY BE NEGATIVELY AFFECTED BY THE USE OF THIS PRODUCT.

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

EMERGENCY & FIRST AID PROCEDURES

INHALATION:
 IF INHALED IN SUFFICIENT CONCENTRATIONS TO CAUSE COUGHING, SNEEZING OR RESPIRATORY IRRITATION THE EXPOSED PERSON SHOULD BE REMOVED TO FRESH AIR AND TREATED SYMPTOMATICALLY.

EYE CONTACT:
 OBJECT IS TO SEEK MEDICAL ATTENTION 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 ANY IRRITATION PERSISTS.

SKIN CONTACT:
 WASH WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION IF ANY IRRITATION PERSISTS.

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.

NOTES TO PHYSICIAN:
 SODIUM METASILICATE: GASTRIC LAVAGE IS INDICATED.

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	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO

SODIUM METASILICATE: SKN-HMN: 250MG/24 SEV. 2.
 ORAL-PIG: LDLO 250MG/KG 2.

TRIPROPYLENE GLYCOL MONOMETHYL ETHER
 ORL-RAT LD50: 3300MG/KG 2.
 ORL-DOG LD50: 5000MG/KG 2.

ND-165

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SECTION VI - TOXICITY INFORMATION

PAGE :

SECTION VII - REACTIVITY DATA

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

INCOMPATIBILITY (MATERIALS TO AVOID)
 MAY ETCH GLASS OR ANODIZED ALUMINUM IF PRODUCT IS HOT. THE SURFACE IS HOT OR THE PRODUCT IS NOT RINSED OR PROPERLY DILUTED.

HAZARDOUS DECOMPOSITION PRODUCTS
 OXIDES OF CARBON, NITROGEN, SILICA

HAZARDOUS	WILL NOT OCCUR	MAY OCCUR	CONDITIONS TO AVOID
POLYMERIZATION	X<--	<--	N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 SMALL SPILL: FLUSH SURFACE WITH LARGE AMOUNTS OF WATER & FLUSH DOWN DRAIN.
 LARGE SPILL: STOP LEAK. CONTAIN SPILL. REMOVE BY WET VACUUM OR ABSORBANT.
 REUSE SPILLED MATERIAL IF POSSIBLE. OTHERWISE, PLACE IN CLOSED LABELED CONTAINER AND STORE IN SAFE PLACE. FLUSHING REMAINING RESIDUE TO DRAIN.

WASTE DISPOSAL METHOD
 DISPOSE OF IN ACCORDANCE WITH STATE, FEDERAL & LOCAL REGULATIONS CONCERNING HEALTH POLLUTION. NORMAL PROCEDURE: SKIM OFF FLOATING OIL & GREASE AND FLUSH DOWN DRAIN OR SEPARATE IN AUTOMATIC OIL/WATER SEPARATOR AND FLUSH DOWN DRAIN.

NEUTRALIZING AGENT

DILUTE (10%) HCL OR FLUSH WITH LARGE AMOUNTS OF WATER.

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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SECTION IX - SPECIAL PROTECTION

RESPIRATORY PROTECTION
 WITH NORMAL USE, NO RESPIRATOR IS REQUIRED. IN AN EMERGENCY
 THE FOLLOWING RESPIRATOR SELECTION IS SUGGESTED.
 100MG/M3: HIEPF/SAF/SCBAF
 200MG/M3: PAPHIEF/SAF/PD/PP/CF
 ESCAPE DMXSF/SCBAF

PROTECTIVE GLOVES
 IMPERVIOUS RUBBER GLOVES IF REPEATED OR PRO-
 LONGED SKIN CONTACT IS EXPECTED.

EYE PROTECTION
 CHEMICAL GOGGLES IF METHOD OF APPLICATION PRE-
 SENTS THE LIKELIHOOD OF EYE CONTACT.

OTHER PROTECTION
 N/A

SECTION X - STORAGE AND HANDLING

STORAGE TEMPERATURE | INDOOR | HEATED | REFRIGI
 120 F.--MAX 32 F.--MIN | X | |

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
 IF POSSIBLE STORE AT MODERATE TEMPERATURES. HIGHER
 OR LOWER STORAGE TEMPERATURES SHOULD NOT HARM THE
 PRODUCTS EFFECTIVNESS BUT HEAT MAY CAUSE INCREASED
 AGRESSIVENSS ON GLASS OR ALUMINUM. IF PRODUCT
 FREEZES, WARM TO ROOM TEMPERATURE AND STIR THO-
 ROUGHLY.

OTHER PRECAUTIONS
 KEEP OUT OF REACH OF CHILDREN.
 READ ENTIRE LABEL BEFORE USING.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME | C.A.S. NUMBER | UPPER %
 N/A

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING
 319 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORI
 1986 AND 40 CFR PART 372.
 IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END U
 FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED
 JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FA
 MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE P

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SECTION XI - REGULATORY INFORMATION

LABELED FOR MAINTAINING MOTOR VEHICLES.

SECTION XII - TRANSPORTATION + (FOR FUTURE)

APPLICABLE REGULATIONS
 <--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--M
 SHIPPING NAME

HAZARD CLASS | ID NU

LABELS | LIMIT

UNIT CONTAINER

DOT SPS CONTAINER | NET EXPLOSIVE V

AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

1. VENDOR'S MSDS.
2. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 6TH EDITI
 N. IRVING SAX.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONS
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