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DATE OF ISSUE
01/28/86SUPERSEDES
01/28/86

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS
N/ATRADE NAME & SYNONYMS
ND-150CHEMICAL FAMILY
BUTYL DETERGENTFORMULA
X<--MIXTUREMANUFACTURERS NAME:
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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.	683-49-20
ETHYLENE GLYCOL MONOBUTYL ETHER	SKIN IRR.	25 PPM 1.	50 PPM 2.	111-76-2

SECTION III - PHYSICAL DATA

BOILING PT. (FAHRENHEIT)	210	SPEC GRAVITY (H2O=1)	1.01
VAPOR PRESSURE (MM HG)	17	COLOR	YELLOW-GREEN

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SECTION III - PHYSICAL DATA

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VAPOR DENSITY (AIR=1)	0.6	ODOR	BUTYL
PH @ 100%	12.2	CLARITY	TRANSPARENT
PERCENT VOLATILE BY VOLUME (%)	95	EVAPORATION RATE (BU AC = 1)	0.10
SOLUBILITY IN WATER	COMPLETE		
VISCOSITY	NON-VISCIDUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED) NON-FLAMM/A	FLAMMABLE LIMITS N/A	LEL N/A	UEL N/A
EXTINGUISHING MEDIA "ALCOHOL" X<--FOAM	X<--FOAM	X<--CO2	X<--CHEMICAL
			X<--WATER SPRAY
			X<--OTHER

SPECIAL FIRE FIGHTING PROCEDURES
USE OF EXTINGUISHING MATERIAL DEPENDS UPON NATURE OF FIRE.
PRODUCT IS NON-FLAMMABLE. WEAR NIOSH/MSHA APPROVED RESPIRATOR WHEN FIGHTING
FIRES IN CONFINED AREAS TO PROTECT FROM ACRID SMOKE AND HAZARDOUS DECOMP.UNUSUAL FIRE & EXPLOSION HAZARDS
NONE KNOWN

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 AT THE
SKIN, MODERATE IRRITATION AND POSSIBLE DISCOMFORT. IRRITATING BY
INHALATION AND BY MIST TO UPPER RESPIRATORY TRACT OR OTHER MUCOUS MEMBRANE
AREAS. EYE CONTACT PRODUCES TEARING, IRRITATION AND 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

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SECTION V - HEALTH HAZARD DATA

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IN SUPERFICIAL DESTRUCTION OF SKIN TISSUE AND DERMATITIS. CHRONIC EYE EXPOSURE CAN LEAD TO DESTRUCTION OF EYE TISSUE TO BLINDNESS. TARGET ORGANS: LIVER, KIDNEY, LYMPHOID SYSTEM, SKIN, BLOOD, EYES AND RESPIRATORY SYSTEM. DISEASES OF THESE SYSTEMS MAY BE EXACERBATED BY PROLONGED OVEREXPOSURE TO THIS PRODUCT.

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

EMERGENCY & FIRST AID PROCEDURES

INHALATION:

TYPICALLY NOT A HAZARD, BUT GET TO FRESH AIR AND TREAT 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:

A. SODIUM METASILICATE - GASTRIC LAVAGE IS INDICATED.
B. ETHYLENE GLYCOL MONOBUTYL ETHER - ORGANIC ABNORMALITIES IN MAN RESULTING FROM OVEREXPOSURE BY ANY ROUTE LIKELY WOULD BE ABNORMAL BLOOD PICTURE, CHARACTERIZED BY ERYTHROPENIA, RETICULOCYTOSIS, GRANULOCYTOSIS AND LEUKOCYTOSIS.

SECTION VI - TOXICITY INFORMATION

SODIUM METASILICATE
SKN-HMN: 250MG/24 SEV 3.
ORAL-PIG: LDLO 250MG/KG 3.
ETHYLENE GLYCOL MONOBUTYL ETHER
IHL-HMN: TCLO 195PPM/8H IRR 3.
ORAL-RAT: LD50 1480MG/KG 3.
IHL-RAT: LCLO 500PPM/4H 3.

SECTION VII - REACTIVITY DATA

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

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SECTION VII - REACTIVITY DATA

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INCOMPATIBILITY (MATERIALS TO AVOID)
OVEREXPOSURE: DARKENS ALUMINUM, TIN, ZINC.
ETCHES: ANODIZED ALUMINUM AND GLASS IF LEFT TO DRY.

HAZARDOUS DECOMPOSITION PRODUCTS

IF BURNED OR INCINERATED, MAY EMIT ACRID SMOKE.

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

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
SMALL SPILL: FLUSH SURFACE WITH LARGE VOLUMES OF WATER & FLUSH DOWN DRAIN.
LARGE SPILL: STOP LEAKS. CONTAIN SPILL. REMOVE BY WET VACUUM OR ABSORBANT.
REUSE SPILLED MATERIAL IF POSSIBLE. OTHERWISE, PLACE IN CLOSED LABELED CONTAINER AND STORE IN A 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 REQUIREMENT.

RESPIRATORY PROTECTION
GENERAL EXHAUST IS ADEQUATE UNDER NORMAL CIRCUMSTANCES.

PROTECTIVE GLOVES
WEAR IMPERVIOUS GLOVES (SYNTHETIC, ELASTOMERS OR PVC) TO MINIMIZE SKIN CONTACT.

EYE PROTECTION
CHEMICAL GOGGLES DEPENDING UPON SEVERITY OF CONTACT.

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SECTION IX - SPECIAL PROTECTION INFORMATION PAGE : 05

OTHER PROTECTION
N/A

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE
120 F. <--MAX 32 F. <--MIN | INDOOR | HEATED | REFRIGERATED | OUTDOOR
XPRECAUTIONS TO BE TAKEN IN HANDLING & STORING
STORE IN COOL, DRY PLACE.
KEEP OUT OF REACH OF CHILDREN.
READ AND FOLLOW LABEL DIRECTIONS.OTHER PRECAUTIONS
N/A

SECTION XI - 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 XII - REFERENCES

1. THRESHOLD LIMIT VALUE FOR CHEMICAL SUBSTANCES IN THE WORK ENVIRONMENT, 2ND EDITION, ACGIH, 1985.
2. NIOSH PCKET GUIDE TO CHEMICAL HAZARDS, 1978.

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SECTION XII - REFERENCES

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3. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 6TH EDITION, N. IRVING SAX.

N/A = NO APPLICABLE INFORMATION WAS FOUND.

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