

ORION MATERIAL SAFETY DATA SHEET

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I. PRODUCT INFORMATION

PRODUCT NAME: SAOB COMPONENT A

CATALOG NO.: 941609

EFFECTIVE DATE: 03/15/91

HAZARDOUS SHIPMENT LABELING: BOTH: SODIUM HYDROXIDE SOLUTION - U.N. NO. 1824-CORROSIVE - CARGO ONLY.

PREPARED BY: THOMAS F. FLYNN TITLE: QUALITY ASSURANCE CHEMIST

APPROVED BY: LYNN ORLOWITZ TITLE: DIRECTOR REGULATORY MATTERS

II. HAZARDOUS INGREDIENTS (IDENTITY INFORMATION)

HAZARDOUS COMPONENTS* SPECIFIC CHEMICAL IDENTITY: COMMON NAME(S)	CAS NO.	%	OSHA PEL	ACGIH TLV	LD LO MG/KG
SODIUM HYDROXIDE (NAOH)	1310-73-2	8.0	2 MG/M3	C 2 MG/M3	500 (ORL-RBT)
HAMP-ENE NA2 (EDTA, DIHYDRATE) 139-33-3	NA	7.4	NONE	NONE	2,000 (LD 50) (ORL-RAT)
**DEIONIZED WATER (H2O)	7732-18-5	84.6	NONE	NONE	190,000 (ORL-RAT) (LD 50)

PAGE 1

III. PHYSICAL DATA

BOILING POINT 760 MM HG: > 100 DEGREES C

FREEZING POINT: <- 8 DEGREES C

SPECIFIC GRAVITY (H2O = 1): APPROX. 1.1

VAPOR PRESSURE @: NA

PH @ 25 DEGREES C: STRONGLY ALKALINE

SOLUBILITY IN WATER, & BY WT. @: MISCIBLE

VOLATILES, % BY WT.: NA

EVAPORATION RATE (BUTYL, ACETATE = 1): NA

VAPOR DENSITY (AIR = 1)

APPEARANCE AND ODOR: COLORLESS, ODORLESS SOLUTION

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD): NOT COMBUSTIBLE

AUTOIGNITION TEMPERATURE: NA

FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER: NA UPPER: NA

EXTINGUISHING MEDIA: ANY

SPECIAL FIRE-FIGHTING PROCEDURES:

MOVE CONTAINERS AWAY IF POSSIBLE, COOL FROM SIDE, USE FLOODING QUANTITIES OF WATER AS A FOG. APPLY FROM A DISTANCE, STAY UPWIND, AVOID BREATHING.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NEGLIGIBLE FIRE AND EXPLOSION HAZARD WHEN EXPOSED TO HEAT OR FLAME.

PAGE 2

V. REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: SEE BELOW

INCOMPATIBILITY (MATERIALS TO AVOID):

CONTACT WITH WATER MAY CAUSE HEAT TO BE RELEASED. CONTACT WITH ACIDS, FLAMMABLE LIQUID, AND ORGANIC HALOGEN COMPOUNDS MAY CAUSE FIRE.

HAZARDOUS DECOMPOSITION PRODUCTS:

MAY RELEASE TOXIC FUMES OF SODIUM OXIDE WHICH CAN REACT WITH WATER OR STEAM TO PRODUCE HEAT OR FLAMMABLE H₂ GAS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITION TO AVOID: NA

VI. HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? YES - VAPORS CORROSIVE SKIN? YES - BURNS
INGESTION? YES - CORROSIVE

HEALTH HAZARDS (ACUTE AND CHRONIC):

INHALATION: MILD TO SEVERE IRRITATION, LARGE DOSES: DELAYED PULMONARY EDEMA, SMALL SKIN BURNS WITH DEEP ULCERATION, SEVERE BURNS AND DISINTEGRATION OF CONJUNCTIVAL AND CORNEAL EPITHELIUM. CORROSION OF LIPS, MOUTH, TONGUE, AND

PHARYNX, VOMITING OF MUCOSA-ASPHYXSIA CAN OCCUR FROM SWELLING OF THROAT.
CHRONIC: BRONCHIAL IRRITANT, COUGHING, PNEUMONIA, GASTROINTESTINAL
DISTURBANCES, DERMATITIS, CONJUNCTIVITIS.

CARCINOGENICITY: NOT FOUND ON THESE LISTS.

SIGNS AND SYMPTOMS OF EXPOSURE: SORE THROAT, COUGHING, LABORED BREATHING,
BURNS OF SKIN, EYES, MUCOUS MEMBRANES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
LUNG CONDITIONS; IRRITATED OR SENSITIVE SKIN.

EMERGENCY AND FIRST AID PROCEDURES: ALL: GET MEDICAL ATTENTION. INHALATION:
FRESH AIR, ARTIFICIAL RESPIRATION IF NECESSARY. KEEP WARM AND AT REST. SKIN:
WASH WITH SOAP AND LARGE AMOUNTS OF WATER WHILE REMOVING CONTAMINATED CLOTHING.
EYES: FLUSH WITH LARGE AMOUNTS OF WATER WHILE LIFTING LIDS 15-20 MINUTES.
INGESTION: GIVE LARGE AMOUNTS OF MILK OR WATER AND ALLOW VOMITING TO OCCUR; DO
NOT INDUCE VOMITING.

PAGE 3

VII. PRECAUTIONS (SAFE HANDLING AND USE)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
VENTILATE AREA, WEAR IMPERVIOUS GLOVES, CLOTHING, AND A FACE SHIELD. PREVENT
SKIN CONTACT. PICK UP, NEUTRALIZE WITH HCL, FLUSH RESULTING SODIUM CHLORIDE
SOLUTION DOWN DRAIN. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS.

WASTE DISPOSAL METHOD:
SEE ABOVE.

VIII. CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): > 100 MG/M3 SCBA FULL FACEPLATE

VENTILATION: LOCAL EXHAUST: TO MEET EXPOSURE LIMITS SPECIAL: NA
MECHANICAL(GENERAL): NA OTHER: NA

PROTECTIVE GLOVES: IMPERVIOUS GLOVES

EYE PROTECTION: SPLASH PROOF SAFETY GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: IMPERVIOUS CLOTHING

WORK/HYGIENIC PRACTICES: EMERGENCY EYE WASH SHOULD BE AVAILABLE. NO EATING OR
SMOKING WHILE WORKING WITH THIS PRODUCT.

* CHEMICALS WHICH ARE NOT CLASSIFIED AS HAZARDOUS PER U.S. OSHA GUIDELINES
(29CFR PARTS 1915.2 OR 1916.2) OR THE MASSACHUSETTS SUBSTANCE LIST
(105CMR670.000 APPENDIX A) WILL NOT NECESSARILY BE LISTED ON THIS FORM EVEN
THOUGH ONE OR MORE MAY BE A CONSTITUENT OF THIS PRODUCT.

NA NOT AVAILABLE OR NOT APPLICABLE.

NON-HAZARDOUS COMPONENT

TSCA NUMBER FOR HAMP-ENE

LIABILITY IS EXPRESSLY DISCLAIMED FOR ANY LOSS OR INJURY ARISING OUT OF THE USE
OF THIS INFORMATION OR THE USE OF ANY MATERIALS DESIGNATED. SAFE USE OF THE
MATERIALS IS THE RESPONSIBILITY OF THE USER.

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PAGE 4 (LAST PAGE)