



chemists helping chemists in research & industry

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SHIPPING/RECEIVING DOCK

DATE: 04/24/90
CUST#: 938609
PO#: 65209

M A T E R I A L S A F E T Y D A T A S H E E T

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IDENTIFICATION

PRODUCT #: 21591-0
CAS #: 7681-55-2
MF: INAD3

NAME: SODIUM IODATE, 98+%

SYNONYMS

SODIUM IODATE * NATRIUMJODAT (GERMAN) *

TOXICITY HAZARDS

TECS NO: NN1400000

IODIC ACID, SODIUM SALT

TOXICITY DATA

IPR-MUS LD50: 119 MG/KG

JPETAB 120,171,57

IVN-MUS LD50: 108 MG/KG

JPETAB 120,171,57

REVIEWS, STANDARDS, AND REGULATIONS

NOHS 1974: HZD 84430; NIS 1; TNF 222; NOS 3; TNE 1620

NOES 1933: HZD 84430; NIS 4; TNF 575; NOS 8; TNE 8951; TFE 6739

EPA TSCA CHEMICAL INVENTORY, 1986

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)

DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.

CAUSES EYE AND SKIN IRRITATION.

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER

RESPIRATORY TRACT.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND

TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

CALL A PHYSICIAN.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

PHYSICAL DATA

SPECIFIC GRAVITY: 4.277

APPEARANCE AND ODOR

WHITE POWDER

FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA

WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO

CONTINUED ON NEXT PAGE

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----- FIRE AND EXPLOSION HAZARD DATA -----

PREVENT CONTACT WITH SKIN AND EYES.

OXIDIZER.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

----- REACTIVITY DATA -----

INCOMPATIBILITIES

STRONG REDUCING AGENTS

FINELY POWDERED METALS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

HYDROGEN IODIDE

----- SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

EVACUATE AREA.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY

RUBBER GLOVES.

COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER

AND HOLD FOR WASTE DISPOSAL.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD

CAUTIOUSLY ACIDIFY A 3% SOLUTION OR A SUSPENSION OF THE MATERIAL TO PH 2 WITH SULFURIC ACID. GRADUALLY ADD A 50% EXCESS OF AQUEOUS SODIUM BISULFITE WITH STIRRING AT ROOM TEMPERATURE. AN INCREASE IN TEMPERATURE INDICATES THAT A REACTION IS TAKING PLACE. IF NO REACTION IS OBSERVED ON THE ADDITION OF ABOUT 10% OF THE SODIUM BISULFITE SOLUTION INITIATE IT BY CAUTIOUSLY ADDING MORE ACID. IF MANGANESE, CHROMIUM, OR MOLYBDENUM ARE PRESENT ADJUST THE PH OF THE SOLUTION TO 7 AND TREAT WITH SULFIDE TO PRECIPITATE FOR BURIAL AS HAZARDOUS WASTE. DESTROY EXCESS SULFIDE, NEUTRALIZE AND FLUSH THE SOLUTION DOWN THE DRAIN. OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.

---- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ----

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

USE ONLY IN A CHEMICAL FUME HOOD.

SAFETY SHOWER AND EYE BATH.

AVOID BREATHING DUST.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

IRRITANT.

KEEP TIGHTLY CLOSED.

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--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

KEEP AWAY FROM COMBUSTIBLE MATERIALS, HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

ADDITIONAL INFORMATION

INCOMPATIBILITY: MIXTURES OF IODATES WITH FINELY DIVIDED ALUMINUM, ARSENIC, COPPER, CARBON, PHOSPHOROUS (RED OR WHITE) SULFUR; HYDRIDES OF ALKALI AND ALKALINE EARTH METALS; SULFIDES OF ANTIMONY, ARSENIC, COPPER OR TIN, METAL CYANIDES, THIOCYANATES OR IMPURE MANGANESE DIOXIDE MAY REACT VIOLENTLY OR EXPLOSIVELY, EITHER SPONTANEOUSLY (ESPECIALLY IN THE PRESENCE OF MOISTURE) OR ON INITIATION BY HEAT, FRICTION, IMPACT, SPARKS OR THE ADDITION OF SULFURIC ACID.

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