

SIGMA CHEMICAL COMPANY -- IODINE ACS REAGENT PRODUCT #:I0385 -- 6810-01-263-2560

===== Product Identification =====

Product ID:IODINE ACS REAGENT PRODUCT #:I0385

MSDS Date:01/01/1995

FSC:6810

NIIN:01-263-2560

MSDS Number: BWSPH

=== Responsible Party ===

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST. LOUIS

State:MO

ZIP:63178

Country:US

Info Phone Num:800-325-3010/FAX

800-325-5052

Emergency Phone Num:314-771-5765

CAGE:21076

=== Contractor Identification ===

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Country:US

Phone:314-771-5765

CAGE:21076

===== Composition/Information on Ingredients =====

Ingred Name:IODINE

CAS:7553-56-2

RTECS #:NN1575000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 0.1 PPM

ACGIH TLV:C 0.1 PPM; 9394

===== Hazards Identification =====

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LD50 LC50 Mixture:ORAL, RAT LD50:14 MG/KG.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:HIGHLY TOXIC.TOXIC BY INHAL,CONTACT
W/SKIN,INGEST.CAUSES BURNS.MAY CAUSE SENSITIZATION BY INHAL/SKIN
CONTACT.SEVERE LACHRYMATOR.FATAL IF INHAL/INGEST/ABSORBED THRU
SKIN.MATL EXTREMELY DESTRUCTIVE TO T ISSUE OF MUC MEMBRANES/UPPER
RESP TRACT/EYES/SKIN.INHAL:FATAL FRM SPASM,INFLAMM,EDEMA OF

LARYNX,BRONCHI,CHEM PEUTIS
Effects of Overexposure:BURNING SENSATION, COUGHING, WHEEZING,
LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA, VOMITING. EXPO
CAN CAUSE STOMACH PAINS, VOMITING, DIARRHEA. DAMAGE TO EYES.
DERMATITIS. MAY CAUSE ALLERGIC REACTION.
Medical Cond Aggravated by Exposure:TARGET
ORGANS:THYROID,GASTROINTESTINAL(HYPERMOTILITY,DIARR,OTHER
CHANGES),ENDOCRINE(EVIDENCE OF THYROID HYPERFUNCTION),EFFECTS
ONNEWBORN(VIABILITY INDEX,GROWTH STATISTICS).

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===== First Aid Measures =====

First Aid:IF FEEL UNWELL SEEK MED ADVICE IMMED;SHOW LABEL WHERE
POSSIBLE. EYES:RINSE IMMED W/PLENTY OF WATER. SEEK MED ADVICE.
CONTACT IMMED FLUSH EYES/SKIN W/COPIOUS AMTS OF WATER FOR @LEAST
15MINS WHILE REMOV ING CONTAMIN CLOTH/SHOES. INHAL:REMOVE TO FRESH
AIR. NOT BREATH GIVE ART RESP. BREATH DIFFI GIVE OXY. INGEST:WASH
OUT MOUTH W/WATER PROVIDED PERSON IS CONSCIOUS. CALL PHYSICIAN.

===== F
ire Fighting Measures =====

Extinguishing Media:DRY CHEMICAL POWDER.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS &
PROTECTIVE CLOTHIHG TO PREVENT CONTACT W/SKIN & EYES.
Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
MIXING IODINE,ANTIMONY & AMMONIA RESULTED IN EXPLOSION. A VIOLENT
REACTION OCCURS BETWEEN IODINE & ACETALDEHYDE.

===== Accidental Release Measures =====

Spill Release Procedures:E

VACUATE AREA.WEAR SCBA,RUBB BOOTS,HEAVY RUB
GLOVES.COVER W/DRY LIME OR SODA ASH.PICK UP.KEEP IN CLSD CNTNR &
HOLD FOR WSTE DISPOSAL.VENTILATE AREA & WASH SPILL SITE AFTER MATL
PIKCUP IS COMPLETE.

===== Handling and Storage =====

Handling and Storage Precautions:USE ONLY IN CHEM FUME HOOD.DO NOT
BREATHE VAP.AVOID CONTACT W/EYES/SKIN/CLOTH.AVOID
PROLONGED/REPEATED EXPO.KEEP TIGHTLY CLSD.STORE IN COOL DRY PLACE.

Other Precautions:CORROSIVE.HI
GHLY TOXIC.SEVERE LACHRYMATOR.HARMFUL
VAPOR.SENSITIZER.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR APPROPRIATE NIOHS/MSHA APPROVED RESP,
CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES,OTHER PROTECTIVE
CLOTHIHG.

Ventilation:USE ONLY IN A CHEMICAL FUME HOOD.

Protective Gloves:WEAR GLOVES

Eye Protection:EYE/FACE PROTECTION.

Other Protective Equipment:SUITABLE PROTECTIVE CLOTHING.SAFETY SHOWER &
EYEBATH.

Work Hygienic Practices:DISCAR
D CONTAMIN CLOTHING/SHOES.WASH THOROUGHLY
AFTER HANDLING.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:T6

Boiling Pt:B.P. Text:364F,184C

Melt/Freeze Pt:M.P/F.P Text:236F,114C

Vapor Pres:0.31MM@25C

Vapor Density:9

Spec Gravity:4.930

Appearance and Odor:SOLID.

===== Stability and Reactivity Data =====

MAGNESIUM, ZINC, AMMONIA, ALUMINUM, CORRODES STEEL.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFAC

TURER.

Hazardous Decomposition Products:NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.

===== Disposal Considerations =====

Waste Disposal Methods:MATERIAL IN THE ELEMENTAL STATE SHOULD BE RECOVERED FOR REUSE OR RECYCLING. OBSERVE ALL LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.

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