

Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300 or 202-483-7616

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: ISOBUTYL ALCOHOL This MSDS is valid for all grades and catalog numbers	S
=== Conoral Information	
General Information	
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=== Ingredients/Identity Information	
=== Ingredient: ISOBUTYL ALCOHOL (SARA III) Ingredient Sequence Number: 01 NIOSH (RTECS) Number: NP9625000 CAS Number: 78-83-1	OSHA PEL: 100 PPM ACGIH TLV: 50 PPM; 9293 Other Recommended Limit: NONE SPECIFIED BY M.
==== Physical/Chemical Characteristics	
Appearance And Odor: CLEAR, COLORLESS SOLUTION WITH MILD ALCOHOL-LIKE ODOR. Boiling Point: 108C,226F Melting Point: -108C,-226F Vapor Pressure (MM Hg/70 F): 9 MMHG	Vapor Density (Air=1): 2.6 Specific Gravity: 0.803 (WATER=1) Evaporation Rate And Ref: 0.8 (BUTYL ACETATE=1) Solubility In Water: 8.7% @ 20C,68F Percent Volatiles By Volume: 100
==== Fire and Explosion Hazard Data	
=== Flash Point: 98.6F,37.0C Flash Point Method: TCC Lower Explosive Limit: 10.9 Upper Explosive Limit: 1.6	

Extinguishing Media: DRY CHEMICAL, FOAM OR CARBON DIOXIDE.DO NOT USE A SOLID STREAM OF WATER, SINCE THE STREAM WILL SCATTER AND SPREAD FIRE. Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA AND FULL PROT EQUIP. WATER SPRAY MAY BE USED TO COOL FIRE EXPOSED CONTRS. VAPOR CAN FLOW

TO DISTANT IGNITION SOURCE & FLASH BACK.

Unusual Fire And Expl Hazrds: ABOVE FLASH POINT, VAPOR-AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS.

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Reactivity Data

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Stability: YES

Cond To Avoid (Stability): HEAT, OPEN FLAMES. Materials To Avoid: OXIDIZING AGENTS, INORGANIC

ACIDS, ALDEHYDES, ISOCYANATES.

Hazardous Decomp Products: THERMAL DECOMPOSITION WILL PRODUCE CARBON

MONOXIDE, CARBON DIOXIDE, OR ISOBUTYLENE.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): WILL NOT OCCUR.

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Health Hazard Data

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Route Of Entry - Inhalation: YES Route Of Entry - Skin: YES Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: HARMFUL IF INHALED/SWALLOWED. CAUSES EYE AND SKIN IRRITATION. CAN CAUSE SEVERE EYE BURNS. INHALATION MAY CAUSE

IRRITATION OF RESPIRATORY TRACT, DROWSINESS/UNCONSCIOUSNESS. NARCOTIC AT

HIGH CONCENTRATIONS. CAN CAUSE ALLERGIC SKIN REACTIONS.

Carcinogenicity - NTP: NO Carcinogenicity - IARC: NO Carcinogenicity - OSHA: NO

Signs/Symptoms Of Overexp: EYES:IRRIT,REDNESS,BLURRED VISION. SKIN: IRRIT. ABSORPTION-SYMP LIKE INGEST. INGEST:NAUSEA, DROWSINESS, UNCONSCIOUS. LRG AMT-CNS/LIVER DAMAGE. INHAL:NOSE/THROAT IRRIT, COUGHING, DROWSINESS, CNS PROBLEMS.

Med Cond Aggravated By Exp: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS,OR IMPAIRED LIVER,KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

Emergency/First Aid Proc: INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED. EYE CONTACT:FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL HELP. SKIN CONTACT:WASH WITH SOAP AND WATER. GET MED ATTENTION IF SYMPTOMS

PERSIST. INGESTION:DO NOT INDUCE VOMITING, DRINK 1-2 GLASSES OF WATER. GET MEDICAL HELP IMMEDIATELY.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: REMOVE IGNIT SOURCES. CLEAN-UP PERSONNEL NEED PROT CLOTHING & RESP PROT. CONTAIN & RECOVER LIQ FOR RECLAMATION WHEN

POSS. OR ABSORB USING INERT ABSORBENT AND SAVE IN CONTAINERS FOR DISPOSAL.

Waste Disposal Method: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Precautions-Handling/Storing: PROTECT FROM PHYSICAL DMG.STORE IN COOL, DRY, WELL-VENT AREA, AWAY FROM ACUTE FIRE HAZ & OXIDIZERS. OUTSIDE OR DETACHED STORE IS BEST.

Other Precautions; BOND/GROUND CONTR FOR TRANSFER TO AVOID STATIC SPARKS. USE NON-SPARKING TOOLS & EQUIP.NO SMOKING IN STOR/USE AREAS.MAINTAIN EYE WASH FOUNTAIN & QUICK-DRENCH FACILITY.DO NOT WEAR CONTACT LENSES.USE WITH ADEQ VENT.AVOID BRTHG VAPORS.

Control Measures

Respiratory Protection: USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF TLV IS EXCEEDED OR WHEN USING IN CONFINED SPACES. Ventilation: LOCAL AND GENERAL VENTILATION NECESSARY TO KEEP AIR

CONCENTRATION BELOW TLV.

Protective Gloves: WEAR IMPERVIOUS GLOVES.

Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).

Other Protective Equipment: WEAR IMPERVIOUS PROTECTIVE CLOTHING INCLUDING

BOOTS, LAB COAT, APRON OR COVERALLS TO PREVENT SKIN CONTACT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

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Transportation Data

DOT PSN Code: GJL IATA Proper Shipping Name: FLAMMABLE

LIQUID, N.O.S. * * DOT Proper Shipping Name: ISOBUTYL

IATA UN Class: 3 ALCOHOL

DOT Class: 3 IATA Label: FLAMMABLE LIQUID DOT ID Number: UN1212 AFI PSN Code: MCA

DOT Pack Group: III

AFI Prop. Shipping Name: FLAMMABLE

DOT Label: FLAMMABLE LIQUID LIQUIDS, N.O.S. *

IMO PSN Code: HIA

IMO Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. *

IMO Regulations Page Number: 3345

IMO UN Number: 1993 IMO UN Class: 3.3

IATA PSN Code: MCA

IATA UN ID Number: 1993

AFI Class: 3

AFI ID Number: UN1993

AFI Pack Group: III

AFI Label: FLAMMABLE LIQUID

AFI Basic Pac Ref: 7-7

N.O.S. Shipping Name: ISOBUTYL

ALCOHOL

Disposal Data

Refer to applicable regional, state and federal codes.

Label Data

Common Name: ISOBUTYL ALCOHOL

Chronic Hazard: YES Signal Word: WARNING! Acute Health Hazard-Slight: X Contact Hazard-Slight: X Fire Hazard-Moderate: X Reactivity Hazard-Slight: X

Special Hazard Precautions: FLAMMABLE LIQUID! HARMFUL IF INHALED/SWALLOWED. CAUSES EYE AND SKIN IRRITATION. CAN CAUSE SEVERE EYE BURNS. INHALATION MAY CAUSE IRRITATION OF RESPIRATORY TRACT, DROWSINESS/UNCONSCIOUSNESS. NARCOTIC AT HIGH CONCENTRATIONS. STORE IN COOL, DRY, WELL-VENT AREA, AWAY FROM ACUTE FIRE HAZ & OXIDIZERS. OUTSIDE OR DETACHED STORE IS BEST. FIRST AID: INHALATION: REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED. EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL HELP. SKIN CONTACT: WASH WITH SOAP AND WATER. GET MED ATTENTION IF SYMPTOMS PERSIST. INGESTION: DO NOT INDUCE VOMITING, DRINK 1-2 GLASSES OF WATER. GET MEDICAL HELP IMMEDIATELY.

Protect Eye: Y Protect Skin: Y Protect Respiratory: Y

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.

--Rev 2.0 12/18/01 JC