

An ISO 9001:2000
Certified Company



THE POWER OF THREE²

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

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 ISOBUTYRATE
This MSDS is valid for all grades and catalog numbers

General Information

PHARMCO-AAPER

58 Vale Road
Brookfield, Connecticut 06804, USA
Phone (203) 740-3471
Fax (203) 740-3481

1101 Isaac Shelby Drive
Shelbyville, KY 40065
Phone (502) 633-0650
Fax (502) 633-0685

Ingredients/Identity Information

Ingredient: ISOBUTYL ISOBUTYRATE
Ingredient Sequence Number: 01
Percent: 100

NIOSH (RTECS) Number: NQ5250000
CAS Number: 97-85-8

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS
LIQUID,FRUITY ODOR.(PER COND CHEM
DICT)
Boiling Point: 298F,148C
Vapor Pressure (MM Hg/70 F): 3.8

Vapor Density (Air=1): 5.0
Specific Gravity: 0.853
Evaporation Rate And Ref: 0.45,BUAC
Solubility In Water: INSOLUBLE
Percent Volatiles By Volume: 100

Fire and Explosion Hazard Data

Flash Point: 101F,3C CC
Lower Explosive Limit: 1.0
Extinguishing Media: WATER FOG, CO*2, DRY CHEMICAL
Special Fire Fighting Proc: SCBA W/FULL FACEPIECE OPERATED IN PRESS
DEMAND/POS PRES MODE
Unusual Fire And Expl Hazrds: VAP HEAVIER THAN AIR-MAY MOVE ALONG GROUND &
BE IGNITED DISTANT FROM MATL HANDLING PT. COMBUSTIBLE!

Reactivity Data

Stability: YES
Cond To Avoid (Stability): HEAT,FLAMES, IGNITION SOURCES
Materials To Avoid: STRONG OXIDIZING AGENTS
Hazardous Decomp Products: CO, CO*2, OTHER TOXIC MATERIALS.
Hazardous Poly Occur: NO

Health Hazard Data

Signs/Symptoms Of Overexp: EYES:RED/TEARS. SKIN:IRRIT. INH:RESP IRRIT/
DIZZ/WEAK/NAUS/HDCH/UNCONS/ASPHYX. ING:NAUS/VOMIT/DIARR.
GIVE WATER, INDUCE VOMITING IMMED. INH:MOVE TO FRESH AIR, GIVE O*2,ART RESP
AS NEC. KEEP WARM & QUIET. IN AL CASES CALL MD. SKIN:THOROUGHLY WASH W/SOAP
& WATER, REMOVE CONTAMINATED CLTHNG/WASH.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: ELIMINATE IGNITION SOURCES. MUST WEAR PROT
EQUIP. STOP SPILL AT SOURCE,DIKE AREA. PUMP LIQ TO SALVAGE TANK. TAKE UP
REMAINING LIQ ON ABSORBENT MATL(SAND, CLAY, ETC) & SHOVEL INTO CONTAINERS.
PREVENT RUN-OFF TO SEWERS, STREAMS, OTHER BODIES OF WATER.
Waste Disposal Method: SMALL SPILL:ALLOW VOLATILE PORTION TO EVAPORATE IN
HOOD & CLEAR DUCT WORK. BURN REMAINING IN IRON PAN. LARGE SPILL:DESTROY BY
LIQ INCINERATION. CONTAMINATEE ABOSRBENT MAY BE DEPOSITED IN A LANDFILL IAW
LOCAL, STATE & FEDERAL REGULATIONS.
Precautions-Handling/Storing: KEEP CNTNR CLSD TIGHTLY. AVOID BRTHNG
VAPORS. CNTNRS OF MATL MAY BE HAZARD WHEN EMPTIED(CONTAIN PROD
RESIDUES)SO
ALL HAZARD PREC MUST BE OBSERVED.
Other Precautions: NEVER USE WELDING/CUTTING TORCH ON/NEAR DRUM(EVEN
EMPTY)-PRODUCT CAN IGNITE EXPLOSIVELY.

Control Measures

Respiratory Protection: NIOSH/MSHA APPRVD FOR EXPOSURE OF CONCERN.
Ventilation: MECH(GEN OR LOC EXH) TO KEEP EXP BELOW LEVEL OF OVEREXPOSURE
Protective Gloves: RESIST/NEOPRENE
Eye Protection: SAFETY GLASSES/CHEM SPLAS
Other Protective Equipment: H GOGGLES. WEAR IMPERVIOUS CLTHNG & BOOTS.
Suppl. Safety & Health Data: ADDRESS:2240 COMMONWEALTH, NORTH CHICAGO, IL
60064.

Transportation Data

DOT PSN Code: GJL	IATA UN ID Number: 1993
DOT Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.	IATA Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. *
DOT Class: 3	IATA UN Class: 3
DOT ID Number: UN1993	IATA Label: FLAMMABLE LIQUID
DOT Pack Group: III	AFI PSN Code: MCA
DOT Label: FLAMMABLE LIQUID	AFI Prop. Shipping Name: FLAMMABLE LIQUIDS, N.O.S.
IMO PSN Code: HIA	AFI Class: 3
IMO Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.	AFI ID Number: UN1993
IMO Regulations Page Number: 3345	AFI Pack Group: III
IMO UN Number: 1993	AFI Label: FLAMMABLE LIQUID
IMO UN Class: 3.3	AFI Basic Pac Ref: 7-7
IATA PSN Code: MCA	

Disposal Data

Landfill Ban Item: YES	60064. IN CASE OF ACCIDENTAL
Disposal Supplemental Data: ADDRESS:2240 COMMONWEALTH, NORTH CHICAGO, IL	EXPOSURE OR DISCHARGE, CONSULT HEALTH AND

SAFETY FILE FOR PRECAUTIONS.
1st EPA Haz Wst Code New: D001
1st EPA Haz Wst Name New: IGNITIBLE

1st EPA Haz Wst Char New: IGNITABILITY
1st EPA Acute Hazard New: NO

Label Data

Common Name: ISOBUTYL ISOBUTYRATE
Special Hazard Precautions: EYES:RED/TEARS. SKIN:IRRIT. INH:RESP
IRRIT/DIZZ/WEAK/NAUS/HDCH/UNCONS/ASPHYX. ING:NAUS/VOMIT/DIARR.
Label Name: E M COMPANY
Label Emergency Number: 312-689-2200

Regulatory Data

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA): No chemicals ion this material with known CAS numbers are subject to the reporting requirements of CERCLA.

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.