

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-97/97-85-8.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

97-85-8

**Code:**

M

**RTECS:**

NQ5250000

**Code:**

M

**Name:**

ISOBUTYL ISOBUTYRATE

**Other REC Limits:**

NONE SPECIFIED

**OSHA PEL:**

NOT ESTABLISHED

**Code:**

M

**OSHA STEL:****Code:****ACGIH TLV:**

NOT ESTABLISHED

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

NIOSH APPROVED CHEMICAL CARTRIDGE RESPIRATOR/POWERED AIR-PURIFYING RESPIRATOR.FOR EMERGENCY USE SELF-CONTAINED BREATHING APPARATUS/SUPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

**Ventilation:**

3 USE EXPLOSION-PROOF VENTILATION EQUIPMENT. THE USE OF MECHANICAL DILUTION VENTILATION IF MATERIAL IS HEATED/AGITATED.

**Protective Gloves:**

CHEMICAL RESISTANT GLOVES.

**Eye Protection:**

CHEMICAL SAFETY GOGGLES

**Other Protective Equipment:**

Equipment EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING, APRON, AND BOOTS IF SPILLS OR SPLASHING CAN OCCUR.

**Work Hygienic Practices:**

WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

**Supplemental Safety and Health:**

THIS PRODUCT IS A KIT CONSISTING OF THREE PARTS. FOR PART 1, SEE P/N A; FOR PART 3 SEE P/N C, SAME NSN.

## Health Hazards Data

**LD50/LC50 Mixture:**

LD50 (ORAL RAT) IS UNKNOWN

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

YES

**Ingestion:**

NO

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

ACUTE-THE PRODUCT CAN CAUSE IRRITATION OF THE EYES & MUCOUS MEMBRANES.EFFECTS OF OVEREXPOSURE INCLUDE FATIGUE,NAUSEA & HEADACHE.EIGHT HOUR EXPOSURES HIGHER THAN THE TLV'S CAN HAVE A NARCOTIC EFFECT.CHRONIC- DERMATITIS CAN RESULT FROM DIRECT SKIN CONTACT OVER LONG PERIOD OF TIME.MAY CAUSE LIVER/KIDNEY CHANGES.

**Explanation Of Carcinogenicity:**

N/P

**Signs And Symptoms Of Overexposure:**

THE PRODUCT CAN CAUSE IRRITATION OF THE EYES & MUCOUS MEMBRANES. EFFECTS OF OVEREXPOSURE INCLUDE FATIGUE, NAUSEA & HEADACHE. EIGHT HOUR EXPOSURES HIGHER THAN THE TLV'S CAN HAVE A NARCOTIC EFFECT.

**Medical Cond Aggravated By Exposure:**

PERSONS WITH CHRONIC RESPIRATORY OR SKIN DISEASES MAY BE AT AN INCREASED RISK FROM EXPOSURE. 2

**First Aid:**

GET PROMPT MEDICAL ATTENTION IN ALL CASES.INHALED:REMOVE TO FRESH AIR.PROVIDE CPR IF NEEDED.EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES,HOLDING EYELIDS OPEN.SKIN:WASH WELL WITH SOAP & WATER.ORAL:DO NOT INDUCE VOMITING.CALL A PHYSICIAN/POISON CONTROL CENTER.

**Spill Release Procedures:**

WEAR PROTECTIVE EQUIPMENT.ELIMINATE SOURCES OF IGNITION.VENTILATE THE AREA.S LEAK IF POSSIBLE.CONTAIN THE SPILL.COVER WITH ABSORBENT MATERIALS AS NEEDED.COLLECT THE SPILLED MATERIAL USING NON-SPARKING TOOLS.PLACE IN DOT APPROVED METAL CONTAINERS.

**Neutralizing Agent:**

NOT APPLICABLE.

**Waste Disposal Methods:**

INCINERATE ABSORBED IN A LICENSED HAZARDOUS WASTE FACILITY. DISPOSAL SHOULD BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. EPA HAZARDOUS WASTE NUMBER F005. RUN-OFF TO SEWER MAY CREATE FIRE/EXPLOSION HAZARD.

**Handling And Storage Precautions:**

STORAGE-STORE IN COOL,WELL VENTILATED AREA AWAY FROM HEAT,SPARKS & OTHER SOURCES OF IGNITION.

**Other Precautions:**

FLAMMABLE LIQUID.AVOID BREATHING VAPOR/MIST.AVOID CONTACT WITH EYES & SKIN.STORE IN TIGHTLY CLOSED CONTAINERS.VAPORS CAN BE IGNITED EASILY.UTILIZE PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING THE PRODUCT.EMPTY CONTAINERS MAY BE HAZARDOUS.

## Fire and Explosion Hazard Information

**Flash Point Method:**

CC

**Flash Point:**

40.0F,4.4C

**Autoignition Temp:**

N/K

**Autoignition Temp Text:**

N/K

**Lower Limits:**

1.2

**Upper Limits:**

7.1

**Extinguishing Media:**

CO2,ALCOHOL FOAM, DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS AWAY.

**Fire Fighting Procedures:**

WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

**Unusual Fire/Explosion Hazard:**

STRONG OXIDIZERS MAY CAUSE THIS MIXTURE TO BECOME UNSTABLE. CONCENTRATED VAPORS CAN BE IGNITED BY CONTACT WITH A SPARK, FLAME/HIGH INTENSITY HEAT SOURCE.

## Physical/Chemical Properties

**HCC:**

F2

**NRC/State LC No:**

N/R

**Net Prop WT For Ammo:**

N/A

**Boiling Point:**

40.0F,4.4C

**B.P. Text:**

UNKNOWN

**Melt/Freeze Pt:**

UNKNOWN

**Decomp Temp:**

UNKNOWN

**Decomp Text:**

UNKNOWN

**Vapor Pres:**

N/K

**Vapor Density:**

N/K

**Volatile Org Content %:**

UNKNOWN

**Spec Gravity:**

0.979

**VOC Pounds/Gallon:**

UNKNOWN

**PH: N/R**

UNKNOWN

**VOC Grams/Liter:**

UNKNOWN

**Viscosity:**

N/P

**Evaporation Rate & Reference:**

UNKNOWN

**Solubility in Water:**

UNKNOWN

**Appearance and Odor:**

WHITE LIQUID, TOLUENE ODOR

**Percent Volatiles by Volume:**

85

**Corrosion Rate:**

UNKNOWN

**Corrosion Text:**

UNKNOWN

**Conditions To Avoid Polymerization:**

NOT APPLICABLE

## Toxicological Information

**Information:**

N/P

## MSDS/Transport Information

**Information:**

N/P

## Regulatory Information

**Sara Title III Information:**

N/P

**Federal Regulatory Information:**

N/P

**State Regulatory Information:**

N/P

**Other Information:**

N/P

For R&D use only. Not for drug, household or other uses.

WARRANTY: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is guarantee of the properties of the product. Lookchem safety shall not be held liable for any damage resulting from the use of this information. The user shall be responsible for determining the suitability of the product for its intended use. Lookchem shall not be liable for any damage resulting from the use of this information. The user shall be responsible for determining the suitability of the product for its intended use.

TERMS AND CONDITIONS: The above information is based on the present state of our knowledge and is not a guarantee of the properties of the product. Lookchem safety shall not be held liable for any damage resulting from the use of this information. The user shall be responsible for determining the suitability of the product for its intended use.

TERMS AND CONDITIONS: The above information is based on the present state of our knowledge and is not a guarantee of the properties of the product. Lookchem safety shall not be held liable for any damage resulting from the use of this information. The user shall be responsible for determining the suitability of the product for its intended use.

TERMS AND CONDITIONS: The above information is based on the present state of our knowledge and is not a guarantee of the properties of the product. Lookchem safety shall not be held liable for any damage resulting from the use of this information. The user shall be responsible for determining the suitability of the product for its intended use.

TERMS AND CONDITIONS: The above information is based on the present state of our knowledge and is not a guarantee of the properties of the product. Lookchem safety shall not be held liable for any damage resulting from the use of this information. The user shall be responsible for determining the suitability of the product for its intended use.

TERMS AND CONDITIONS: The above information is based on the present state of our knowledge and is not a guarantee of the properties of the product. Lookchem safety shall not be held liable for any damage resulting from the use of this information. The user shall be responsible for determining the suitability of the product for its intended use.

TERMS AND CONDITIONS: The above information is based on the present state of our knowledge and is not a guarantee of the properties of the product. Lookchem safety shall not be held liable for any damage resulting from the use of this information. The user shall be responsible for determining the suitability of the product for its intended use.

TERMS AND CONDITIONS: The above information is based on the present state of our knowledge and is not a guarantee of the properties of the product. Lookchem safety shall not be held liable for any damage resulting from the use of this information. The user shall be responsible for determining the suitability of the product for its intended use.

TERMS AND CONDITIONS: The above information is based on the present state of our knowledge and is not a guarantee of the properties of the product. Lookchem safety shall not be held liable for any damage resulting from the use of this information. The user shall be responsible