



MATERIAL SAFETY DATA SHEET

CONTACT : **LEONID CHEMICALS**
Leonid Chemicals Pvt Ltd
62/A-2 1st Stage, Yeshwanthpur Industrial Suburb
Ashokpuram School Road
Bangalore-560 022, Karnataka, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

Iodomethane, stabilized, 99%

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Iodomethane, stabilized, 99%

Catalog Numbers:

12237-0000, 12237-0050

Synonyms:

Methyl iodide

Company Identification (Europe): Acros Organics BVBA

Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification (USA): Acros Organics

One Reagent Lane
Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	74-88-4
Chemical Name	:	Iodomethane
%	:	99%
EINECS#	:	200-819-5
Hazard Symbols	:	T
Risk Phrases	:	21 23/25 37/38 40

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful in contact with skin. Toxic by inhalation and if swallowed.

Irritating to respiratory system and skin. Limited evidence of a carcinogenic effect. Light sensitive.

Potential Health Effects

Eye:

Causes eye burns. Causes redness and pain.

Skin:

Causes skin irritation. Harmful if absorbed through the skin. Causes skin burns.

Ingestion:

Poison by ingestion. Causes gastrointestinal tract burns. May cause

effects similar to those for inhalation exposure.

Inhalation:

Causes respiratory tract irritation. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. Toxic if inhaled.

Chronic:

Prolonged or repeated skin contact may cause dermatitis. May cause kidney injury. Chronic exposure may lead to liver and lung damage.

SECTION 4 - FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting and seek IMMEDIATE MEDICAL ADVICE. Wash mouth out with water.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

SECTION 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media:

Use water spray to cool fire-exposed containers. Use extinguishing media most appropriate for the surrounding fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Provide ventilation.

SECTION 7 - HANDLING and STORAGE

Handling:

Use only in a well-ventilated area. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage:

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear liquid

Color: almost colorless

Odor: characteristic odor - pungent odor

pH: Not available.

Vapor Pressure: 500 mbar @ 20 deg C

Viscosity: 0.469 mPa.s

Boiling Point: 42.5 deg C @ 760 mmHg

Freezing/Melting Point: -66 deg C

Autoignition Temperature: 352 deg C (665.60 deg F)

Flash Point: Not applicable.

Explosion Limits, lower: 8.5 vol%

Explosion Limits, upper: 66 vol%

Decomposition Temperature: 270 deg C

Solubility in water: 20 g/l water

Specific Gravity/Density: 2.2800g/cm³

Molecular Formula: CH₃I

Molecular Weight: 141.94

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures. Darkens on exposure to light.

Conditions to Avoid:

Incompatible materials, light, exposure to air, temperatures above 250°C, exposure to moist air or water.

Incompatibilities with Other Materials:

Strong oxidizing agents, metals, strong bases, sodium, oxygen, mercury.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, hydrogen iodide, iodine.

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 74-88-4: PA9450000

LD50/LC50:

CAS# 74-88-4: Dermal, guinea pig: LD50 = 800 mg/kg; Draize test, rabbit, eye: 100 mg Severe; Draize test, rabbit, skin: 500 mg Severe; Inhalation, mouse: LC50 = 5 gm/m³/57M-C; Inhalation, mouse: LC50 = 5000 mg/m³/57M; Inhalation, rat: LC50 = 1300 mg/m³/4H; Oral, rat: LD50 = 76 mg/kg.

Irritation:

Skin, human: 1 gm/10M mild

Skin, rat: 1 gm/30M mild

Carcinogenicity:

Iodomethane -

California: carcinogen; initial date 4/1/88

NIOSH: potential occupational carcinogen

Other:

See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

log POW 1.69

Other

This chemical is not likely to bioconcentrate.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name: METHYL IODIDE

Hazard Class: 6.1

UN Number: 2644

Packing Group: I

IMO

Shipping Name: METHYL IODIDE

Hazard Class: 6.1

UN Number: 2644

Packing Group: I

RID/ADR

Shipping Name: METHYL IODIDE

Hazard Class: 6.1

UN Number: 2644

Packing group: I

USA RQ: CAS# 74-88-4: 100 lb final RQ; 45.4 kg final RQ

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 21 Harmful in contact with skin.

R 23/25 Toxic by inhalation and if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 40 Limited evidence of a carcinogenic effect.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.

S 38 In case of insufficient ventilation, wear suitable respiratory equipment.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 74-88-4: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

CAS# 74-88-4: MEL-United Kingdom, TWA 2 ppm TWA; 12 mg/m³ TWA

Canada

CAS# 74-88-4 is listed on Canada's DSL List.

CAS# 74-88-4 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 74-88-4: OEL-AUSTRALIA:TWA 2 ppm (10 mg/m³);Skin;Carcinogen

OEL-BELGIUM:TWA 2 ppm (12 mg/m³);Skin;Carcinogen

OEL-CZECHOSLOVAKIA:TWA 1 mg/m³;STEL 2 mg/m³

OEL-DENMARK:TWA 1 ppm (5.6 mg/m³);Skin

OEL-FINLAND:TWA 5 ppm (28 mg/m³);STEL 10 ppm (56 mg/m³);Skin

OEL-GERMANY;Carcinogen

OEL-THE NETHERLANDS:TWA 2 ppm (10 mg/m³);Skin

OEL-THE PHILIPPINES:TWA 5 ppm (28 mg/m³);Skin

OEL-POLAND:TWA 10 mg/m³

OEL-SWEDEN:TWA 1 ppm (6 mg/m³);STEL 5 ppm (30 mg/m³);Skin;CAR

OEL-SWITZERLAND:TWA 2 ppm (12 mg/m³);Skin

OEL-UNITED KINGDOM:TWA 5 ppm (28 mg/m³);STEL 10 ppm;Skin

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

US FEDERAL

TSCA

CAS# 74-88-4 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 7/16/1996 Revision #1 Date: 5/04/2000

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.