



MATERIAL SAFETY DATA SHEET

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Sodium methoxide, 30% weight solution in methanol

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Sodium methoxide, 30% weight solution in methanol

Catalog Numbers:

S161

Synonyms:

Sodium methylate

Company Identification:

LEONID CHEMICALS

62/A-2 2nd Stage, Industrial Suburb

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	: 67-56-139/23/24/25	124-41-4
Chemical Name	: methanol	Sodium methoxide
%	: 70%	30%
EINECS#	: 200-659-6	204-699-5
Haz Symbols	: F T	F C
Risk Phrases	: 11 23/24/25	11 14 34

Text for R-phrases: see Section 16

Hazard Symbols: T

Risk Phrases: 10 14 23/24/25 34 39/23/24/25

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable. Reacts violently with water. Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Moisture sensitive.

Potential Health Effects

Eye:

Causes eye burns.

Skin:

Causes skin burns. Toxic in contact with skin.

Ingestion:

Poison by ingestion. Causes gastrointestinal tract burns. May cause respiratory failure. May cause vascular collapse and damage. May cause kidney failure. Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. Ingestion can cause



blurred vision, narrowing of the visual field, or blindness.

Inhalation:

Causes chemical burns to the respiratory tract. May cause adverse central nervous system effects including headache, convulsions, and possible death. May cause visual impairment and possible permanent blindness. May cause effects similar to those described for ingestion. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Toxic if inhaled.

Chronic:

Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion.

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.

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. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Water Reactive. Material will react with water and may release a flammable and/or toxic gas. Flammable liquid and vapor.

Extinguishing Media:

Use foam, dry chemical, or carbon dioxide. DO NOT USE WATER!

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. Remove all sources of ignition. Use a spark-proof tool.

SECTION 7 - HANDLING and STORAGE

Handling:

Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not allow contact with water. Use only in a chemical fume hood.

Storage:

Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

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: colorless - light yellow

Odor: alcohol-like

pH: Not available.

Vapor Pressure: 150hPa @50 deg C

Viscosity: Not available.

Boiling Point: 93 deg C @760mmHg

Freezing/Melting Point: 1 - 5 deg C

Autoignition Temperature: 240 deg C (464.00 deg F)

Flash Point: 33 deg C (91.40 deg F)

Explosion Limits, lower: 5.5 Vol %

Explosion Limits, upper: 44 Vol %
Decomposition Temperature:
Solubility in water: with water
Specific Gravity/Density: 0.960
Molecular Formula: CH₃NaO
Molecular Weight: 54.02

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, light, ignition sources, exposure to moist air or water.

Incompatibilities with Other Materials:

Metals, oxidizing agents, acids.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, sodium oxide.

Hazardous Polymerization: Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 67-56-1: PC1400000

CAS# 124-41-4: PC3570000

LD50/LC50:

CAS# 67-56-1: Draize test, rabbit, eye: 40 mg Moderate; Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 20 mg/24H Moderate; Inhalation, rabbit: LC50 = 81000 mg/m³/14H; Inhalation, rat: LC50 = 64000 ppm/4H; Oral, mouse: LD50 = 7300 mg/kg; Oral, rabbit: LD50 = 14200 mg/kg; Oral, rat: LD50 = 5600 mg/kg; Skin, rabbit: LD50 = 15800 mg/kg.

CAS# 124-41-4: Oral, rat: LD50 = 2037 mg/kg.

Sodium methoxide CAS 124-41-4:

Skin, rat: LD50 => 2000 mg/kg

Carcinogenicity:

methanol -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Sodium methoxide -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Sodium methoxide CAS# 124-41-4: Fish toxicity: LC50 golden ide: 346

mg/L/48H Methyl alcohol CAS# 67-56-1: Aquatic toxicity rating: TLM

96 >1000 ppm. Fish toxicity: Goldfish (fresh water), 250 ppm/11H,

death. LC50 trout: 8000 mg/L/48H (Price, K.S. et al J.-Water Pollut.

Control Fed. 1974, 46,1). Invertebrate toxicity: LC50 brine shrimp

10,000 mg/L/24H (Price, K.S. et al J.-Water Pollut. Control Fed. 1974, 46, 1).EC50 Photobacterium phosphoreum 51,000-320,000 ppm/30min, microtox test (Kaiser,K.L.E. et al Water Pollut.Res.J.Can.1991, 26(3),361-431).

Other

See "The dictionary of substances and their effects" (editor: M.L. Richardson) for more information.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name: SODIUM METHYLATE SOLUTION

Hazard Class: 3

UN Number: 1289

Packing Group: III

IMO

Shipping Name: SODIUM METHYLATE SOLUTION

Hazard Class: 3

UN Number: 1289

Packing Group: III

RID/ADR

Shipping Name: SODIUM METHYLATE SOLUTION

Hazard Class: 3

UN Number: 1289

Packing group: III

USA RQ:CAS# 67-56-1: 5000 lb final RQ; 2270 kg final RQ

USA RQ:CAS# 124-41-4: 1000 lb final RQ; 454 kg final RQ

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 10 Flammable.

R 14 Reacts violently with water.

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

R 39/23/24/25 Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 7/8 Keep container tightly closed and dry.

S 16 Keep away from sources of ignition - No smoking.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37 Wear suitable protective clothing and gloves.

S 43A In case of fire, use dry chemical (never use water).

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# 67-56-1: 1

CAS# 124-41-4: 1

United Kingdom Occupational Exposure Limits

CAS# 67-56-1: OES-United Kingdom, TWA 200 ppm TWA; 266 mg/m³ TWA

CAS# 67-56-1: OES-United Kingdom, STEL 250 ppm STEL; 333 mg/m³ STEL

CAS# 67-56-1: OES-United Kingdom, STEL 250 ppm STEL; 333 mg/m³ STEL

United Kingdom Maximum Exposure Limits

Canada

CAS# 67-56-1 is listed on Canada's DSL List.

CAS# 124-41-4 is listed on Canada's DSL List.

CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

CAS# 124-41-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 67-56-1: OEL-ARAB Republic of Egypt: TWA 200 ppm (260 mg/m³); Skin

US FEDERAL

TSCA

CAS# 67-56-1 is listed on the TSCA inventory.

CAS# 124-41-4 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 7/16/1996 Revision #2 Date: 8/06/2003

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.