

MSDS for Methylhydrazine, 98%



Material Safety Data Sheet

Methylhydrazine, 98%

Section 1 - Chemical Product and Company Identification

MSDS Name: Methylhydrazine, 98%
Catalog Numbers: 12695-0000, 12695-0100, 12695-1000
Synonyms:
Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium
Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS# Chemical Name: % EINECS#
60-34-4 Methylhydrazine 98% 200-471-4

Hazard Symbols: T F



Risk Phrases: 45 11 23/24/25

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. May cause cancer. Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation. Toxic in contact with skin.
Ingestion: Poison by ingestion.
Inhalation: May cause respiratory tract irritation. Toxic if inhaled.
Chronic: May cause cancer in humans.

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.
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: Do NOT induce vomiting. If conscious and alert, rinse mouth and drink

Inhalation: 2-4 cupfuls of milk or water.
Remove from exposure and move to fresh air immediately.

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.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

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.

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. 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: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 60-34-4:

United States OSHA: ; 0.2 ppm Ceiling; 0.35 mg/m³ Ceiling

Belgium - TWA: 0.01 ppm VLE; 0.019 mg/m³ VLE

France - VME: 0.2 ppm VME; 0.35 mg/m³ VME

Malaysia: 0.01 ppm TWA; 0.019 mg/m³ TWA

Spain: 0.01 ppm VLA-ED; 0.019 mg/m³ VLA-ED

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear safety glasses and chemical goggles if splashing is possible.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: colorless - faint yellow

Odor: Not available

pH: Not available

Vapor Pressure: 48 mbar @ 20 C

Viscosity: Not available

Boiling Point: 87 deg C @ 760.00mm Hg (188.60癈)

Freezing/Melting Point: -21 deg C (-5.80癈)

Autoignition Temperature: 196 deg C (384.80 deg F)

Flash Point: 21 deg C (69.80 deg F)
Explosion Limits: Lower: 2.50 vol %
Explosion Limits: Upper: 97.00 vol %
Decomposition Temperature: Not available
Solubility in water: soluble in water
Specific Gravity/Density: .8660g/cm³
Molecular Formula: CH₃NHNH₂
Molecular Weight: 46.06

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials: Incompatible materials, peroxides, oxygen.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 60-34-4: MV5600000
LD50/LC50: RTECS:
CAS# 60-34-4: Dermal, guinea pig: LD50 = 48 mg/kg;
 Inhalation, mouse: LC50 = 56 ppm/4H;
 Inhalation, rat: LC50 = 34 ppm/4H;
 Oral, mouse: LD50 = 29 mg/kg;
 Oral, rat: LD50 = 32 mg/kg;
 Skin, rabbit: LD50 = 95 mg/kg;
 Skin, rat: LD50 = 183 mg/kg;

Carcinogenicity: Methylhydrazine - ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans California: carcinogen, initial date 7/1/92

Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	METHYLHYDRAZINE (forbidden to ship via passenger or cargo air)	METHYLHYDRAZINE	METHYLHYDRAZINE
Hazard Class:	6.1 (3)	6.1 (3)	6.1 (3)
UN Number:	1244	1244	1244
Packing Group:	I	I	I

USA Toxic Inhalation Hazard

USA RQ: CAS# 60-34-4: 10 lb final RQ; 4.54 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T F

Risk Phrases:

R 45 May cause cancer.

R 11 Highly flammable.

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

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

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

S 24/25 Avoid contact with skin and eyes.

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# 60-34-4: Not available

Canada

CAS# 60-34-4 is listed on Canada's NDSL List

US Federal

TSCA

CAS# 60-34-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996

Revision #0 Date Original.

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 event 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.

