

Safety Data Sheet/ Fiche Signalétique – Acetone

Section 1 – Identification

Product identifier: Acetone

Supplier: Multi-Blend Ltd., 6535 Millcreek Drive, Units 9-12, Mississauga, Ontario, L5N 2M2, 905-678-9559, admin@multiblend.com

Recommended use: Solvent

Emergency contact: Canutec – 1-888-CAN-UTEC (226-8832) or 613-996-6666 or *666 on a cellular phone.

Section 2 – Hazard Identification

Classification: *WHMIS Information: This product is a WHMIS Hazardous product.*
This product falls into the following classifications:

- Flammable Liquids - Category 2
- Serious eye damage/eye irritation - Category 2A
- Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)
- Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

GHS Label Elements:



Signal word: Danger

Hazard statement(s):

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Precautionary statement(s):

Keep away from heat, open flames and hot surfaces. - No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical and ventilating equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing mist or vapours.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use water fog, dry chemical, CO₂ or 'alcohol' foam to extinguish.

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Emergency overview: Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Carcinogenic status: Not known to be carcinogenic. See TOXICOLOGICAL INFORMATION, section 11.

Additional health hazards: See TOXICOLOGICAL INFORMATION, section 11.

Potential environmental effects: See ECOLOGICAL INFORMATION, section 12.

Section 3 – Composition/Information on ingredients

Ingredient	CAS	Concentration w/v%
Acetone	67-64-1	100%

Safety Data Sheet/ Fiche Signalétique – Acetone

Section 4 – First Aid Measures

Inhalation: Call a physician or poison control centre immediately. Do not induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

Skin contact: Wash off with soap and plenty of water. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before re-use.

Eye contact: Immediately flush eyes with running water for at least 15 minutes. Obtain medical attention if irritation persists.

Ingestion: Do NOT induce vomiting. Rinse mouth with water. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Direct skin contact may cause slight or mild, transient irritation. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. This product is a CNS depressant.

Section 5 – Fire Fighting Measures

Flammability: Flammable.

Recommended means of extinction: Water spray, carbon dioxide, foam, dry chemical. Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability: Highly flammable liquid and vapour. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

Hazardous combustion products: Carbon monoxide, carbon dioxide, toxic vapours, gases or particulates.

Oxidizing properties: No data available.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures: Fight fires from a safe distance. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

Section 6 – Accidental Release Measures

Personal precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.

Spill response: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up: Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with inert, non-combustible absorbent material (e.g. sand, vermiculite), then place material into open, unsealed containers. For waste disposal, see Section 13 of the SDS.

Section 7 – Handling and Storage

Safe handling procedures: Use only in well-ventilated areas. Wear suitable protective equipment during handling. Do not ingest or swallow. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat, sparks and open flames. Use only non-sparking tools with this material. Avoid contact with incompatible materials. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not use pressure to empty drums. Do not cut, weld, drill or grind on or near this container. Follow labeled warnings even after container is emptied.

Safe storage procedures: Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials : Strong oxidizing agents, Activated carbon, Strong reducing agents.

Section 8 – Exposure Controls and Personal Protection

Ingredient	Time-Weighted Average Limit (TWA)	Short-Term Exposure Limit (STEL) / Ceiling Limit (C)
Acetone	250 ppm	500 ppm

Engineering controls: Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof electrical and ventilating equipment.

Personal protective equipment (PPE):

Skin: Wear impervious gloves, such as nitrile rubber. Advice should be sought from glove suppliers.

Eyes: Chemical splash goggles are recommended. A full face shield may also be necessary.

Respiratory: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Safety Data Sheet/ Fiche Signalétique – Acetone

Other: An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Other equipment may be required depending on workplace standards.

General hygiene considerations: Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

Section 9 – Physical and Chemical Properties

Physical state: Liquid.

Appearance: Clear.

Odour: Alcohol.

Odour Threshold: 2000 ppm (irritation at 1000 ppm)

pH: Not applicable

Freezing point: -95°C (-138°F)

Boiling point: 56°C (132°F).

Flash point: -18°C (-4°F)

Flammability: T ag closed cup

Flammability limits: Upper: 36%, Lower: 6%

Vapour pressure: 24.7 mmHg

Vapour density: No data available.

Specific gravity: 0.793

Solubility: Complete

Partition coefficient: No data available.

Auto ignition temperature: 385 - 470°C (725 - 878°F)

Decomposition temperature: No data available.

Viscosity: No data available.

Evaporation rate: 2.1

Section 10 – Stability and Reactivity

Chemical stability: Stable. See STORAGE AND HANDLING, Section 7

Hazardous reactions: May decompose to carbon dioxide and/or carbon monoxide.

Conditions to avoid: Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Avoid heat, open flames, sparks, static electricity and electrical equipment.

Incompatible materials: Strong oxidizing agents, Activated carbon, Strong reducing agents.

Section 11 – Toxicological Properties

Ingredient	LD50 (Oral)	LD50 (Dermal)	LD50 (Inhalation)
Naptha (petroleum), Hydrotreated heavy	5800 mg/kg (rat)	> 15 800 mg/kg (rabbit)	30 000 ppm (71 mg/L) (vapour) (rat)

Effects of acute exposure: May cause irritation of the nose, throat, mucous membranes, and respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause irritation of mouth, throat, and stomach. May be an aspiration hazard.

Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Effects of chronic exposure: Prolonged or repeated skin contact may cause drying and irritation. Prolonged overexposure may cause liver and kidney effects.

Irritant: Irritating to skin.

Sensitization to material: No known evidence of sensitization.

Carcinogenicity: No known evidence of carcinogenicity.

Germ cell mutagenicity: No known evidence of mutagenicity.

Reproductive effects: No known reproductive effects.

Target organ effects: Eyes, skin, respiratory system, digestive system, central nervous system. Liver This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects. May cause respiratory irritation. May cause drowsiness or dizziness. Not classified as specific target organ toxicity-repeated exposure.

Aspiration hazard: Naptha (petroleum), Hydrotreated heavy is a Class 1 aspiration hazard. This product may be fatal if enters airways.

Signs and symptoms of exposure:

Skin/eyes: May cause reddening and irritation upon exposure.

Inhalation: May cause irritation of the nose, throat, mucous membranes, and respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Ingestion: May cause irritation of mouth, throat, and stomach. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Toxicological data: See table above.

Synergistic materials: No data available.

Other important hazards: No data available.

Section 12 – Ecological Information

Ecotoxicity: No data available.

Biodegradability: No data available.

Bioaccumulation: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.



Safety Data Sheet/ Fiche Signalétique – Acetone

Section 13 – Disposal Considerations

Handling for disposal: According to precautions outlined in HANDLING AND STORAGE, Section 7 and EXPOSURE CONTROLS and PERSONAL PROTECTION, Section 8.. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

Methods of disposal: Follow all applicable federal, state/provincial and municipal regulations. For specific information, contact your federal, state/provincial or local environmental agency.

Section 14 – Transport information

UN Number: 1090

UN Proper Shipping Name: Acetone

Hazard Class: 3

Packing Group: II

Additional precautions: Keep away from heat, sparks and open flame. - No smoking.

Section 15 – Regulatory Information

WHMIS 2015: Refer to HAZARDS IDENTIFICATION, Section 2

Section 16 – Other information

LD: Lethal Dose, ATE: Acute Toxicity Estimate, WHMIS: Workplace Hazardous Materials Identification System

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Contact Multi-Blend Ltd. (905-678-9559, admin@multiblend.com) with questions or for support.

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