

Acetone

M-5-1305 , M-5-1492 , M-5-1578 , M-5-1652 , M-5-1653 , M-5-1670 , M-5-1672 ,
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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Acetone**

Product Code(s) : M-5-1305 , M-5-1492 , M-5-1578 , M-5-1652 , M-5-1653 , M-5-1670 , M-5-1672 , 7001

Recommended use of the chemical and restrictions on use

: Solvent.
Use pattern: professional use.

Chemical family

: Ketones

Name, address, and telephone number
of the supplier:

Veolia ES Technical Solutions, LLC

700 East Butterfield Road, Suite 201
Lombard, IL, USA
60148

Supplier's Telephone # : (630) 218-1500 (Monday - Friday, 8:00 AM - 5:00 PM, Central Time)

24 Hr. Emergency Tel # : (877) 818-0087

Name, address, and telephone number of
the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear colourless liquid. Characteristic odour.

Most important hazards: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Hazardous classification:

Flammable liquid - Category 2

Eye irritation - Category 2A

Specific target organ toxicity - single exposure - Category 3

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR).

WHMIS classification:

Class B2 (Flammable Liquids)

Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

Label elements

The following label information is applicable only to the United States according to OSHA Regulations (29 CFR 1910.1200) (Hazcom 2012):

Signal Word

DANGER!

Hazard statement(s)

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Precautionary statement(s)

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Keep away from heat, sparks and open flame. - No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves and eye/face protection.
Wash hands and face thoroughly after handling.
Avoid breathing vapors or mists.
Use only outdoors or in a well-ventilated area.

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.

Store in a well-ventilated place. Keep cool.
Store locked up.

Dispose of contents/container in accordance with local regulation.



The following label information is applicable only to Canada according to the Canadian Controlled Products Regulations (CPR/WHMIS):

DANGER! Extremely flammable liquid and vapour. Vapours may cause flash fire. Harmful if inhaled. May cause respiratory irritation. May cause central nervous system depression. Causes severe eye irritation. May cause skin irritation. May be harmful or fatal if swallowed in large amounts. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard.

PRECAUTIONS: Use only in well-ventilated areas. Wear chemically resistant protective equipment during handling. Keep away from heat, sparks and open flame. - No smoking. Do not ingest. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Avoid contact with incompatible materials. Wash thoroughly after handling. Keep containers closed when not in use. Store in a cool, dry, well ventilated area.

FIRST AID: If ingested, do not induce vomiting. Seek immediate medical attention/advice. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. For skin contact, remove contaminated clothing and flush affected area with lukewarm (not hot) water. If irritation persists, seek prompt medical attention. For eye contact, flush with running water for at least 15 minutes. Seek immediate medical attention/advice. If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stopped, begin artificial respiration. Get medical advice/attention.

Refer To Material Safety Data Sheet for further information.



Other hazards

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Other hazards which do not result in classification: Burning produces obnoxious and toxic fumes. Product may form carbon monoxide on standing in direct sunlight. Ingestion may cause irritation of the mouth, throat and stomach. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury. Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin.

Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration
Acetone	67-64-1	99.9 - 100.0

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Seek immediate medical attention/advice.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin contact* : For skin contact, flush with water for at least 15 minutes, while removing contaminated clothing. If irritation or symptoms develop, seek medical attention.
- Eye contact* : Immediately flush eyes with plenty of water for at least 15 minutes. Seek immediate medical attention/advice.

Most important symptoms and effects, both acute and delayed

- : Causes serious eye irritation.
- May cause mild skin irritation.
- Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin.
- May cause respiratory irritation.
- May cause drowsiness and dizziness.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog.

Unsuitable extinguishing media

- : Water may be ineffective because it may not cool product below the flashpoint.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Highly flammable liquid and vapour Will ignite when exposed to heat, flame and other sources of ignition. Vapours are heavier than air and collect in confined and low-lying areas. Vapour can travel considerable distance and flashback to a source of ignition. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable liquid - Category 2

Explosion Data: Sensitivity to Mechanical Impact / Static Discharge:

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- : Not expected to be sensitive to mechanical impact. May be sensitive to static discharge. Vapours in the flammable range may be ignited by a static discharge of sufficient energy.

Hazardous combustion products

- : Carbon oxides, formaldehyde and other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Immediately evacuate personnel to safe areas. Fight fires from a safe distance. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions

- : 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. Remove all sources of ignition. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): Acetone (5000 lbs / 2270 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not ingest. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Avoid contact with incompatible materials. Wash thoroughly after handling.

Conditions for safe storage

- : Store in a cool, dry, well-ventilated area away from sources of heat, ignition and sunlight. Store away from incompatible materials. Storage facilities should be made of fire resistant materials. For large-scale storage, use a grounded, non-sparking ventilation system, approved explosion-proof equipment and intrinsically safe electrical systems. 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; Acids; Reducing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Acetone	500 ppm	750 ppm	1000 ppm	N/Av

Exposure controls

Ventilation and engineering measures

: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof equipment.

Respiratory protection

: Respiratory protection is required if the concentrations exceed the TLV. A NIOSH/MSHA approved air-purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may be used to reduce exposure.

Skin protection

: Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers. The following glove material(s) are recommended: Butyl rubber; Barrier; Silver Shield™. The following glove material(s) are not recommended: Natural Rubber; Neoprene; Nitrile rubber; Polyethylene; Polyvinylchloride; polyvinyl alcohol.

Eye / face protection

: Chemical splash goggles must be worn when handling this material. A face shield should be worn if operations will generate splashes or sprays.

Other protective equipment

: Wear resistant clothing and boots. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear colourless liquid.
Odour	: Characteristic odor.
Odour threshold	: 62ppm geometric mean (detectable)
pH	: neutral
Melting/Freezing point	: -94.7°C (-138.5°F)
Initial boiling point and boiling range	: 57°C (134°F)
Flash point	: -20°C (-4°F)
Flashpoint (Method)	: TCC
Evaporation rate (BuAe = 1)	: 7.3
Flammability (solid, gas)	: Not applicable.
Lower flammable limit (% by vol.)	: 2.6
Upper flammable limit (% by vol.)	: 12.8
Oxidizing properties	: None known.
Explosive properties	: Not explosive
Vapour pressure	: 180
Vapour density	: 2
Relative density / Specific gravity	: 0.790 - 0.798 (water = 1)

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Solubility in water : 100%
Other solubility(ies) : No information available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: Log P(oct) = -0.24 (measured)
Auto-ignition temperature : 465°C (869°F)
Decomposition temperature : No information available.
Viscosity : 0.4mm²/s @ 20°C (68°F)
Volatiles (% by weight) : No information available.
Volatile organic Compounds (VOC's)
: 795g/l
Absolute pressure of container
: Not applicable.
Flame projection length : Not applicable.
Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under the recommended storage and handling conditions prescribed. Product may form carbon monoxide on standing in direct sunlight.
Possibility of hazardous reactions
: Hazardous polymerization will not occur.
Conditions to avoid : Keep this product away from heat, sparks, flame, and other sources of ignition (e.g. pilot lights, electric motors, static electricity). Keep away from direct sunlight.
Incompatible materials : Strong oxidizing agents; Acids; Reducing agents.
Hazardous decomposition products
: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption
: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

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

Sign and symptoms ingestion

: May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Sign and symptoms skin

: May cause mild skin irritation. Symptoms may include redness, itching and swelling.

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- Sign and symptoms eyes* : Causes severe eye irritation. May cause burning sensation, redness and tearing (watering).
- Potential Chronic Health Effects** : Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Prolonged overexposure may cause liver and kidney effects.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects & Teratogenicity** : Not expected to cause reproductive effects.
- Senitization to material** : Not expected to be a skin or respiratory sensitizer.
- Specific target organ effects** : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).
Classification: Specific target organ toxicity - single exposure - Category 3
May cause drowsiness or dizziness. May cause respiratory irritation.
- Irritancy** : Severe eye irritant. May cause irritation to upper respiratory system. Mild skin irritant.
- Medical conditions aggravated by overexposure** : Pre-existing eye, skin, respiratory, liver, kidney and central nervous system disorders.
- Synergistic materials** : No information available.
- Toxicological data** : See below for toxicological data on the substance.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u>		<u>LD₅₀</u>	
	<u>inh. rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>	
Acetone	30000 ppm (71 mg/L)	5800 mg/kg	>15800 mg/kg	

Other important toxicological hazards

- : CNS depression may result from extreme exposures.

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
Contains: Acetone
The acute toxicity of Acetone is (OECD):
LC50/96h/Oncorhynchus mykiss (rainbow trout) = 7400 mg/L
LC50/48h/Daphnia magna (Water flea) = 15800 mg/L
- Persistence and degradability** : Acetone is considered to be readily biodegradable.
- Bioaccumulation potential** : The log Kow value for Acetone is 0.24, and its bioconcentration factor (BCF) is 0.65.
- Mobility in soil** : No data is available on the product itself.
- Other Adverse Environmental effects** : No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7. Do not cut, weld, drill or grind on or near this container. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
- Methods of Disposal** : Reuse or recycling should be given priority over disposal. If the material is unsuitable for recycling or reclamation, dispose of in accordance with federal, provincial and local hazardous waste laws. Contact your local, state or federal environmental agency for specific rules.

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RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1090	ACETONE	3	II	
TDG Additional information	Within Canada, the Limited Quantity Exemption may apply for containers which hold specific quantities of the product. Under the TDGR, refer to section 1.17 for Limited Quantity Exemption information, if shipping under this exemption.				
49CFR/DOT	UN1090	ACETONE	3	II	
49CFR/DOT Additional information	For shipments by ground within the United States, the Limited Quantity exception may apply. Refer to 49 CFR Section 173.150.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15. REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Acetone (5000 lbs / 2270 kg)

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic Health Hazard; Fire Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: Acetone (MA, MN, NJ, CA, PA, RI).

Canadian Information:

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Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

International Information:

European EINECs information: All ingredients listed appear on the European EINECs inventory.

SECTION 16. OTHER INFORMATION

Legend :

- ACGIH: American Conference of Governmental Industrial Hygienists
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- DOT: Department of Transportation
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- MN: Minnesota
- MSHA: Mine Safety and Health Administration
- N/Ap: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NJ: New Jersey
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PA: Pennsylvania
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- RI: Rhode Island
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- SDS: Safety Data Sheet
- STEL: Short Term Exposure Limit
- TCC: Tagliabue Closed Cup
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average
- TSCA: Toxic Substance Control Act
- WHMIS: Workplace Hazardous Materials Identification System

References :

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2012.
2. International Agency for Research on Cancer Monographs, searched 2013.
3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases (Chempendium, HSDB and RTECs). (2013)
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2012
6. California Proposition 65 List - 4 January 2013

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: 09/01/2011

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Revision Information : (M)SDS sections updated: All sections modified.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<u>Prepared for:</u> Veolia ES Technical Solutions, L.L.C. 700 East Butterfield Road, Suite 201 Lombard, IL, USA 60148 Telephone: (630) 218-1500 Direct all enquiries to: VEOLIA.	
<u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com	

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