SAFETY DATA SHEET

Acetone

SECTION 1: IDENTIFICATION

Product identifier used on a label:	**Acetone**
Product code:	2076
Recommended use of the chemical and restrictions on use:	Industrial use only.
Chemical family:	Pure chemical.
Name, address and phone # of supplier:	Aqua Bond Inc. PO Box 63635, Woodside Square, Toronto, ON, M1V 5J8 (416) 754-7211
24 Hr. Emergency phone #	**CANUTEC (613) 996-6666**

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical: 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).

Hazard classification:
FLAMMABLE LIQUIDS- CATEGORY 2
SKIN IRRITATION- CATEGORY 3
EYE IRRITATION- CATEGORY 2A
STOT-SE- CATEGORY 3

Label elements:



Signal word: DANGER

Hazard statements:
H225 Highly flammable liquid and vapour
H316 Causes mild skin irritation
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

Precautionary statements:
P210 Keep away from heat/sparks/open flames/hot surfaces and other ignition sources.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing fumes/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/ eye protection/ face protection.
P303+P361+P353 If on skin (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical attention.
P337+P313 If eye irritation persists: Get medical attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents in accordance with local/regional/national/ international regulations.

Other hazards: Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/ mixture: Pure substance

Ingredient name	CAS Number	Concentration (%)
Acetone	67-64-1	100

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

Ingestion	Do not induce vomiting. Immediately call a POISON CENTRE or doctor.
Inhalation	Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor if you feel unwell.
Skin contact	Wash with soap and water.
Eye contact	Immediately rinse the contaminated eye with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelids open.

Most important symptoms and effects, both acute and delayed:
Not available.
Indication of any immediate medical attention and special treatment needed:
Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable	Carbon dioxide, dry chemical, alcohol foam, water fog.
Unsuitable	None known.
Special hazards arising from the substance:	Flammable liquid.
Hazardous thermal decomposition products:	Carbon oxides.
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be

	done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapours. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up:	Contain spillage and then collect using electrically protected vacuum cleaner or by wet-brushing and place in container for disposal.
Special spill response procedures:	In case of transportation accident, contact CANUTEC (613)996-6666.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Wear personal protective equipment to avoid direct contact with this chemical. Avoid generating dusts. Only use where there is adequate ventilation. Avoid heating that will increase the amount of vapours. Prevent accidental contact with incompatible chemicals. Keep containers tightly closed when not in use or empty. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.
Conditions for safe storage:	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be resealed and kept upright. Do not store in unlabeled containers.
Incompatible materials:	Bases, oxidizing agents, reducing agents, phosphorus oxychloride.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure limits

Ingredient	***Exposure limits***
Acetone	**ACGIH TLV** TWA 500 ppm STEL 750 ppm

Engineering controls: Use with adequate ventilation to keep worker exposure to airborne

	contaminants below any recommended or statutory limits.
Individual protection measures:	Eyes/face: Chemical splash goggles and face shield. Skin: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Respiratory: Wear appropriate respirator when ventilation is inadequate. Be sure to use a NIOSH approved respirator or equivalent.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid.
Odor:	Sweet pungent.
Odor threshold:	Not available.
pH:	Not available.
Melting point:	Not available.
Freezing point:	-94°C
Initial boiling point and boiling range:	56°C
Flash point:	-17°C
Evaporation rate:	Not available.
Flammability:	Flammable.
Upper and lower flammability limits:	Upper 13%, lower 2%
Vapour pressure:	245.3 hPa @ 20°C
Vapour density:	Not available.
Relative density:	0.79
Solubility:	Miscible.
Partition coefficient n-octanol/water:	Log Pow: -0.24
Auto-ignition temperature:	465°C
Decomposition temperature:	Not available.
Viscosity:	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	None known.
Chemical stability:	Stable.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	Incompatible materials.
Incompatible materials:	Bases, oxidizing agents, reducing agents, phosphorus oxychloride.
Hazardous decomposition products:	Will not decompose under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on the likely	SKIN AND EYES: yes

routes of exposure:	INHALATION: yes INGESTION: yes
Potential health effects (acute):	EYE: Causes eye irritation. INHALATION: Material is destructive to the tissue of the mucous membranes and upper respiratory tract. SKIN: May cause irritation. INGESTION: Harmful if swallowed.
Delayed and immediate effects, chronic effects from short and long term exposure:	Irritating when inhaled. May cause drowsiness or dizziness.
Potential chronic health effects:	No known significant effects or critical hazards.
Carcinogenicity:	The components are not listed as carcinogens.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.
Sensitization:	No known significant effects or critical hazards.

Toxicological effects:

Acute toxicity:

Product	*Result*	*Species*	*Dose*	*Exposure*
Acetone	LD50 oral	Rat	5800 mg/kg	-
	LC50 inhalation	Rat	50100 mg/kg	8 hours

Aspiration hazard: No known significant effects or critical hazards.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity	Not available.
Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in soil:	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or

liners may retain some product residues. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	TDG
UN Number:	UN1090
UN proper shipping name:	ACETONE
Transport hazard class:	3
Packing group:	II
Environmental hazard:	No.
Special precautions for user:	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

Canada inventory (DSL): Listed.

SECTION 16: OTHER INFORMATION

Revision date: October 24, 2022
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Disclaimer

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