AQUABOND Chemistry for Tomorrow SAFETY DATA SHEET

Isopropyl Alcohol 70% USP

SECTION 1: IDENTIFICATION

Product identifier used on a label:	**Isopropyl Alcohol 70% USP**
Product code:	2063
Recommended use of the chemical and restrictions on use:	Industrial use.
Chemical family:	Alcohol
Name, address and phone # of supplier:	Aqua Bond Inc. PO Box 63635 Toronto, ON, M1V 5K2 (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
EYE IRRITATION- CATEGORY 2A
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-CATEGORY 3 (CENTRAL NERVOUS SYSTEM)
STOT-SE- CATEGORY 3

Label elements:



Signal word: DANGER

Hazard statements:
H225 Highly flammable liquid and vapour
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.
P242 Use non-sparking tools.
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+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician 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.
P337+P313 If eye irritation persists: Get medical attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/ mixture: Pure substance

Ingredient Name	Synonyms	CAS Number	Concentration (wt%)
Isopropyl Alcohol	Isopropanol, 2-Propanol	67-63-0	64-68
Water		7732-18-5	32-36

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

Ingestion: Do not induce vomiting. Immediately call a POISON CENTRE or doctor. Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Do not induce vomiting without medical advice.

Inhalation: Consult a physician after significant exposure.
If unconscious place in recovery position and seek medical

Skin contact: If on skin, rinse well with water.
If on clothes, remove clothes.

Eye contact: Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.

Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

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 resistant foam.
Unsuitable:	High volume water jet
Special hazards arising from the substance:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products:	Carbon oxides, formaldehyde, corrosive vapours, nitrogen oxides (NOx)
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:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13).
Special spill response procedures:	In case of transportation accident, contact CANUTEC (613) 996-6666.

SECTION 7: HANDLING AND STORAGE

Advice on protection against fire and	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might

explosion:	cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
Precautions for safe handling:	Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage:	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure limits

Ingredient	***Exposure limits***		
Isopropanol	**CA AB OEL**	**CA BC OEL**	**CA QC OEL**
	TWA 200 ppm	TWA 200 ppm	TWA 400 ppm
	STEL 400 ppm	STEL 400 ppm	STEL 500 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: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. Skin: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. Respiratory: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Filter type: Organic vapour type.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colourless liquid.
Odour:	Alcohol-like, characteristic.
Odour threshold:	Not available
pH:	Not available.
Melting point:	-88°C
Freezing point:	-82°C
Flash point:	18°C
Evaporation rate:	1.7 (Butyl Acetate = 1.0)
Flammability:	Flammable.
Upper and lower flammability limits:	Upper 12.7 vol %, lower 2.0 vol %
Vapour pressure:	20 mmHg @ 332°C
Vapour density:	2.1 @ 15-20°C (Air = 1.0)
Relative density:	0.85-0.87 @ 20°C
Solubility:	Miscible in water.
Partition coefficient n-octanol/water:	Not available
Auto-ignition temperature:	399°C
Decomposition temperature:	Not available.
Viscosity, dynamic:	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No dangerous reactions known under conditions of normal use.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Vapours may form explosive mixture with air.
Conditions to avoid:	Heat, flame, sparks, and other ignition sources.
Incompatible materials:	Strong acids, aldehydes, oxidizing agents, rubber, oils, plastics, amines, metals, halogenated compounds, peroxides, bases.
Hazardous decomposition products:	Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation

Components	Species	Result
67-63-0	Rabbit	Irritating to skin

Serious eye damage/eye irritation

Components	Species	Result
67-63-0	Rabbit	Irritating to eyes

STOT - single exposure

Components: 67-63-0

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Further information
Product:
Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

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:	UN1219
UN proper shipping name:	ISOPROPANOL
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

WHMIS Classification: B2: Flammable liquid
D2B: Toxic Material Causing Other Toxic Effects

This product has been classified according to the

hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

The components of this product are reported in the following inventories:

TSCA	On TSCA Inventory
DSL	All components of this product are on the Canadian DSL
AICS	On the inventory, or in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory.
KECI	On the inventory, or in compliance with the inventory
PHIL	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory

SECTION 16: OTHER INFORMATION

Revision date: December 8, 2022
AICS = Australia, Inventory of Chemical Substances
DSL = Canada, Domestic Substances List
ENCS = Japan, Inventory of Existing and New Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IECSC = Inventory of Existing Chemical Substances in China
KECI = Korea, Existing Chemical Inventory
LogPow = logarithm of the octanol/water partition coefficient
NZIoC = New Zealand Inventory of Chemicals
TSCA = Toxic Substance Control Act
UN = United Nations

Disclaimer

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