

DA-2l Alcohol

SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 1 of 11

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: DA-2l Alcohol

Other means of identification: Not available.

Recommended use of the chemical and restrictions on use

: Industrial solvent.

Use pattern: Professional Use Only Restriction on use: None known

Chemical family : Mixture

Comet Chemical Company Ltd.

Name, address, and telephone number

of the supplier:

Name, address, and telephone number of

the manufacturer:

Refer to supplier

3463 Thomas Street Innisfill, ON, Canada

L9S 3W4

Supplier's Telephone # : (705) 436-5580

24 Hr. Emergency Tel # : GFL Environmental - 1-888-772-2543

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear colourless liquid. Alcohol odour.

Most important hazards: Causes serious eye irritation. Highly flammable liquid and vapour. May cause drowsiness or dizziness.

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 Serious eye damage/eye irritation - Category 2A Specific target organ toxicity, single exposure - Category 3 (narcotic effects)

Label elements

Hazard pictogram(s)





Signal Word

DANGER!

Hazard statement(s)

Highly flammable liquid and vapour! Causes serious eye irritation. May cause drowsiness or dizziness.



DA-2l Alcohol

SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 2 of 11

SAFETY DATA SHEET

Precautionary statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical and ventilating equipment.

Use non-sparking tools.

Take action to prevent static discharges.

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.

Store locked up.

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

Other hazards

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Isopropyl alcohol	Isopropyl alcohol 2-Propanol	67-63-0	5.0-10.0
Ethyl alcohol	Ethyl alcohol Ethyl hydrate	64-17-5	80.0-100.0
Ethyl acetate	Ethyl ethanoate Acetoxyethane	141-78-6	1.0-5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : 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.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing has stopped, give artificial respiration. Get medical

attention if symptoms persist.

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.



DA-2l Alcohol

SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 3 of 11

SAFETY DATA SHEET

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 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

Extinguishing media

Suitable extinguishing media

: Use water fog or fine spray, foams, carbon dioxide or dry chemical.

Unsuitable extinguishing media

: 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.

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable liquids - Category 2

Hazardous combustion products

: Carbon oxides.

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. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

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, protective equipment and emergency procedures

: 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.

Environmental precautions

Do not allow material to contaminate ground water system. 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.



DA-2l Alcohol

SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 4 of 11

SAFETY DATA SHEET

Special spill response procedures

: In Canada:For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC). US CERCLA Reportable quantity (RQ): Ethyl acetate (5000 lbs / 2270 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Use only in well-ventilated areas. Wear suitable protective equipment during handling. 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. Avoid contact with incompatible materials. Keep containers tightly closed when not in use. Use explosion-proof electrical and ventilating equipment. Take precautionary measures against static discharge. Bond and ground transfer containers

and equipment to avoid static accumulation.

Conditions for safe storage :

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. Store locked up.

Incompatible materials

: Strong oxidizing agents; Strong acids.; Alkali metals; Aluminium.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:						
Chemical Name	ACGI	ACGIH TLV OSHA PEL				
	<u>TWA</u>	<u>STEL</u>	PEL	<u>STEL</u>		
Isopropyl alcohol	200 ppm	400 ppm	400 ppm (980 mg/m³)	N/Av		
Ethyl alcohol	N/Av	1000 ppm	1000 ppm (1900 mg/m³)	N/Av		
Ethyl acetate	400 ppm	N/Av	400 ppm (1400 mg/m³)	N/Av		

Exposure controls

Ventilation and engineering measures

: 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.

Respiratory protection

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.

Skin protection

: Wear protective gloves. Advice should be sought from glove suppliers.

Eye / face protection

: Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Other protective equipment

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.



DA-2l Alcohol

SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 5 of 11

SAFETY DATA SHEET

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid

Colour : Clear, colorless.
Odour : Alcohol odour.
Odour threshold : Not available.

pH : N/Av

Melting Point/Freezing point: Not available.

Initial boiling point and boiling range

: 78.8°C

Flash point : 13°C

Flashpoint (Method) : Tag closed cup
Evaporation rate (BuAe = 1) : Not available.
Flammability : Not applicable.
Lower explosion or flammability limit (% by vol.)

Not available.

Upper explosion or flammability limit (% by vol.)

: Not available.

Oxidizing properties : None.

Explosive properties : Not explosive Vapour pressure : Not available. Relative vapour density : Not available.

Relative density / Specific gravity

: 0.7915

Solubility in water : Soluble
Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not applicable.

Viscosity : Not available.

Particle characteristics : Not applicable.

Volatiles (% by weight) : 100% Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Ap

Flame projection length : N/Ap Other physical/chemical comments

: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical stability : Stable under the recommended storage and handling conditions prescribed.

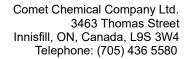
Possibility of hazardous reactions

: Hazardous polymerization will not occur.

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.





SDS Revision Date (mm/dd/yyyy): 03/22/2024 Page 6 of 11

SAFETY DATA SHEET

Incompatible materials : Strong oxidizing agents; Strong acids; Strong alkalis

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

 $\begin{tabular}{lll} \textbf{Routes of entry inhalation} & : & YES \\ \textbf{Routes of entry skin \& eye} & : & YES \\ \textbf{Routes of entry Ingestion} & : & YES \\ \textbf{Routes of exposure skin absorption} \\ \end{tabular}$

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

: May cause mild skin irritation.

Sign and symptoms eyes

: Causes serious eye irritation. Symptoms may include stinging, tearing, redness,

swelling and blurred vision.

Potential Chronic Health Effects

: Prolonged or repeated skin contact may cause drying and irritation. 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 have other reproductive effects.

Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects:

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). May cause drowsiness or dizziness.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials

: None known or reported by the manufacturer.

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

LD₅₀ LC50(4hr) **Chemical name** inh, rat (Oral, rat) (Rabbit, dermal) 17 000 ppm (41.8 mg/L) (vapour) 4720 mg/kg Isopropyl alcohol 12 890 mg/kg > 32 380 ppm (61 mg/L) (vapour) 7060 mg/kg Ethyl alcohol > 15 800 mg/kg 8000 - 16 000 ppm (28.8 - 57.7 10 200 mg/kg Ethyl acetate > 18 000 mg/kg mg/L) (vapour)



SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 7 of 11

SAFETY DATA SHEET

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See data for individual ingredient ecotoxicity data.

Ecotoxicity data:

lu aura di aurta	040#	Toxicity to Fish				
<u>Ingredients</u>	CAS#	LC50 / 96h	NOEC / 21 day	M Factor		
Isopropyl alcohol	67-63-0	9640 mg/L (Fathead minnow)	N/Av	None.		
Ethyl alcohol	64-17-5	> 100 mg/L (Fathead minnow)	N/Av	None.		
Ethyl acetate	141-78-6	> 100 mg/L	N/Av	None.		

<u>Ingredients</u>	CAS#	Toxicity to Daphnia			
		EC50 / 48h	NOEC / 21 day	M Factor	
Isopropyl alcohol	67-63-0	> 10 000 mg/L/24hr (Daphnia magna)	N/Av	None.	
Ethyl alcohol	64-17-5	5012 mg/L (Daphnia magna)	N/Av	None.	
Ethyl acetate	141-78-6	> 100 mg/L	2.4 mg/L	None.	

<u>Ingredients</u>	CAS#	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Isopropyl alcohol	67-63-0	N/Av	N/Av	None.		
Ethyl alcohol	64-17-5	1000 mg/L/96hr (Green algae)	N/Av	None.		
Ethyl acetate	141-78-6	> 100 mg/L/72hr	N/Av	None.		

Persistence and degradability

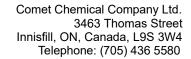
: Readily biodegradable.

Bioaccumulation potential: No data is available on the product itself.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Isopropyl alcohol (CAS 67-63-0)	0.05	1.0
Ethyl alcohol (CAS 64-17-5)	- 0.31	N/Av
Ethyl acetate (CAS 141-78-6)	0.73	30 (Fish)

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects





SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 8 of 11

SAFETY DATA SHEET

: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: See Section 7 (Handling and Storage) for further details. 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

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

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.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label		
TDG	UN1170	ETHYL ALCOHOL SOLUTION	3	II	3		
TDG Additional information	May be shipped exceeding 30 k	d as LIMITED QUANTITY when transported in quantities no g gross mass.	larger than 1	Litre, in pac	kages not		
49CFR/DOT	UN1170	ETHANOL SOLUTION	3	II	3		
49CFR/DOT Additional information	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.						
ICAO/IATA	UN1170	Ethyl alcohol solution	3	II	3		
ICAO/IATA Additional information	Refer to ICAO/I	ATA Packing Instruction					
IMDG	UN1170	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	3	II	3		
IMDG Additional information	Consult the IMI	DG regulations for exceptions.					

Special precautions for user: 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.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:



SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 9 of 11

SAFETY DATA SHEET

		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS#	Inventory		Toxic Chemical	de Minimis Concentration		
Isopropyl alcohol	67-63-0	Yes	None.	None.	Yes	No	
Ethyl alcohol	64-17-5	Yes	None.	None.	No	No	
Ethyl acetate	141-78-6	Yes	5000 lb/ 2270 kg	None.	No	No	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS#	Californ	State "Right to Know" Lists						
	CAS#	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Isopropyl alcohol	67-63-0	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl alcohol	64-17-5	Yes	Cancer (in alcoholic beverages) Developmental (in alcoholic beverages)	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl acetate	141-78-6	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Isopropyl alcohol	67-63-0	200-661-7	Present	Present	(2)-207	KE-29363	Present	HSR001180
Ethyl alcohol	64-17-5	200-578-6	Present	Present	(2)-202	KE-13217	Present	HSR001144
Ethyl acetate	141-78-6	205-500-4	Present	Present	(2)-726	KE-00047	Present	HSR001041

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CNS: Central Nervous System COC: Cleveland Open Cup

CSA: Canadian Standards Association DOT: Department of Transportation



DA-2l Alcohol

References

SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 10 of 11

SAFETY DATA SHEET

IARC: International Agency for Research on Cancer

LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit TLV: Threshold Limit Values TWA: Time Weighted Average

.

: 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices

2. ECHA - European Chemical Agency

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases

4. Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists6. California Proposition 65 List

7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

Preparation Date (mm/dd/yyyy)

: 01/20/2017

Reviewed Date SDS (dd/mm/yyyy)

: 22/03/2024

Revision No. : 2
Revision Information :

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

Comet Chemical Company Ltd. 3463 Thomas Street Innisfill, ON L9S 3W4

Information (M-F 8:00-5:00): 705-436-5580

www.cometchemical.com

COMET CHEMICAL COMPANY LTD.

Prepared by:

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DA-2l Alcohol

SDS Revision Date (mm/dd/yyyy): 03/22/2024

Page 11 of 11

SAFETY DATA SHEET

END OF DOCUMENT