

Isobutyl Acetate SDS Revision Date (mm/dd/yyyy): 02/06/2024

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label				
:	Isobutyl Acetate			
Other means of identification :	None assigned.			
Recommended use of the cher	mical and restrictions on use			
:	Industrial solvent. Use pattern:Professional Use C Restrictions on use:None know	5		
Chemical family	Pure substance			
Name, address, and telepho of the supplier:	one number	Name, address, and telephone number of the manufacturer:		
Comet Chemical Company	Ltd.	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 HAZADDS IDE	NTIFICATION			

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear colourless liquid. Fruity odour.

Most important hazards: May cause drowsiness or dizziness.Occupational exposure to the substance or mixture may cause adverse 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).

Hazard classification :

Flammable liquids - Category 2 Specific target organ toxicity, single exposure - Category 3 (narcotic effects) Specific target organ toxicity, single exposure - Category 3 (respiratory tract irritation, CNS)

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Highly flammable liquid and vapour. May cause drowsiness or dizziness. May cause respiratory irritation. Page 1 of 10



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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. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 locked up. Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:: Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause skin and eye irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
Isobutyl acetate	Acetic acid, isobutyl ester	110-19-0	100.00

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion	 Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
Inhalation	 If inhaled: Remove person to fresh air and keep comfortable for breathing. 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	 Immediately flush with plenty of water, while removing contaminated clothing.Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
Eye contact	: For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.
Most important sympto	ms and effects, both acute and delayed
	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath. Direct eye contact may cause slight redness. Direct skin contact may cause slight or mild, transient irritation.



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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	
Sullable extinguishing media	Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog
Unsuitable extinguishing med	
5 5	Do not use a solid water stream as it may scatter and spread fire.
	e substance or mixture / Conditions of flammability
•	Highly flammable liquid and vapour.
Elementility election (OS	Vapours may ignite explosively.Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material. Empty containers may contain hazardous residues.
Flammability classification (OS	
	Flammable liquids - Category 2
Hazardous combustion produc	
:	Carbon dioxide and carbon monoxide.;Isopropanol and acetic acid.
Special protective equipment a Protective equipment for fire-f	• •
:	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Do not enter withou 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 procedure	
:	Do not breathe fumes or vapours.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.Dike for water control.
SECTION 6. ACCIDENTAL I	RELEASE MEASURES
Personal precautions, protectiv	/e equipment and emergency procedures
:	All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access

Environmental precautions : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
 Methods and material for containment and cleaning up
 : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. 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).Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

: In Canada:For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC).

EPA/CERCLA Reportable quantity (RQ): Isobutyl acetate (5000 lbs / 2270 kg)



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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

	:	Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling. Keep container tightly closed.
Conditions for safe storage	:	Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. 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. Empty containers may contain hazardous residues. After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides.
Incompatible materials	:	Strong oxidizers (e.g. Chlorine, Peroxides, etc.).; Strong acids ;Potassium tert-butoxide Attacks some elastomers, rubber, plastic and coatings.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:					
Chemical Name	ACGIH TLV		OSHA	OSHA PEL	
	<u>TWA</u>	<u>STEL</u>	PEL	<u>STEL</u>	
Isobutyl acetate	150 ppm	N/Av	150 ppm ; 700 mg/m³	N/Av	

Exposure controls

Ventilation and engineering measures

Ventilation and engineering	50105
	Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.
Respiratory protection	If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. 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. Advice should be sought from respiratory protection specialists.
Skin protection	Wear protective gloves. Advice should be sought from glove suppliers.
Eye / face protection	Wear chemical goggles. Wear eye/face protection.
Other protective equipment	Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.
General hygiene considerati	
	Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.
SECTION 9. PHYSICAL A	CHEMICAL PROPERTIES
Physical State	
Filysical State	

Physical State	:	
Colour	:	
Odour	:	Fruity odour.



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Odour threshold	: 1.1 ppm
pH	: Not available.
Melting Point/Freezing point	
Initial boiling point and boiling	
initial boining point and boining	
	: 117°C
Flash point	: 17°C
Flashpoint (Method)	: Cleveland closed cup
Evaporation rate (BuAe = 1)	: 1.5
Flammability	: Not available.
Lower explosion or flammab	
	: 1.3%
Upper explosion or flammab	
	: 10.5%
Oxidizing properties	: None known.
Explosive properties	: Not explosive
Vapour pressure	: 13 mmHg
Relative vapour density	: (Air = 1) 4
Relative density / Specific gr	avity
	: 0.873
Solubility in water	: Partially soluble. (7 g/L)
Other solubility(ies)	: Soluble in most organic solvents (e.g. ethanol, acetone, diethyl ether, chloroform).
Partition coefficient: n-octan	ol/water or Coefficient of water/oil distribution
	: Not available.
Auto-ignition temperature	: 421°C
Decomposition temperature	: No information available.
Viscosity	: No data available.
Particle characteristics	:
Volatiles (% by weight)	: Not available.
Volatile organic Compounds	
	: Not available.
Absolute pressure of contain	ner
	: Not applicable.
Flame projection length	: Not applicable.
Other physical/chemical con	
	: None known or reported by the manufacturer.
SECTION 10. STABILITY A	AND REACTIVITY

Reactivity	Not normally reactive.	
Chemical stability	Stable under normal conditions. Decomposes slowly when exposed to light or on contact with water forming acetic acid and isobutanol.	
Possibility of hazardous read	ns	
-	Hazardous polymerization does not occur.	
Conditions to avoid	Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.	
Incompatible materials	Strong oxidizing agents; Strong acids; Strong alkalis	
Hazardous decomposition p		
	None known, refer to hazardous combustion products in Section 5.	



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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation: YESRoutes of entry skin & eye: YESRoutes 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 headache, nausea, drowsiness or other effects on the central nervous system. May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath.
Sign and symptoms ingesti	on	
	:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sign and symptoms skin	:	Direct skin contact may cause slight or mild, transient irritation.
Sign and symptoms eyes	:	Direct eye contact may cause slight or mild, transient irritation.
Potential Chronic Health Eff	fects	5
	:	Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.
Mutagenicity	:	Not expected to be mutagenic in humans.
Carcinogenicity	:	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects & Tera	tog	enicity
	:	Not expected to cause reproductive effects.
Sensitization to material	:	Not expected to be a skin or respiratory sensitizer.
Specific target organ effect	S :	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.May cause respiratory irritation.
Medical conditions aggrava	ted	by overexposure
	:	Pre-existing skin, eye, respiratory and central nervous system disorders.
Synergistic materials	:	No information available.
Toxicological data	:	See below for toxicological data on the substance.

	LC₅₀(4hr)	LD ₅₀		
Chemical name	<u>inh, rat</u>	(Oral, rat)	<u>(Rabbit, dermal)</u>	
Isobutyl acetate	38.01 mg/L	13400 mg/kg	>5000 mg/kg	

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION



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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. Do not allow material to contaminate ground water system. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

In averaging to	040#	-	Toxicity to Fish			
<u>Ingredients</u>	CAS #	LC50 / 96h	NOEC / 21 day	M Factor		
Isobutyl acetate	110-19-0	17 mg/L (Oryzias latipes)	N/Av	none		

Ingredients	CAS #	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Isobutyl acetate	110-19-0	25 mg/L (Daphnia magna)	23 mg/L (Daphnia magna)	none		

Ingredients	CAS #	AS # Toxicity to Algae			
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor	
Isobutyl acetate	110-19-0	370mg/L (Green algae)	95 mg/L (Green algae)	none	

Persistence and degradability

: Readily biodegradable

Bioaccumulation potential : No information available.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Isobutyl acetate (CAS 110-19-	0) 2.3	15.3
Mobility in soil	The product itself has not been tested.	
Other Adverse Environmental	effects	

: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal	: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
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. For disposal of unused or waste material, check with local, state and federal environmental agencies.



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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label	
49CFR/DOT	UN1213	ISOBUTYL ACETATE	3	II	3	
49CFR/DOT Additional information	May be shipped kg gross mass.	d as LIMITED QUANTITY when transported in cans no lar	ger than 1 L, in	packages n	ot exceeding 30	
ICAO/IATA	UN1213	Isobutyl acetate	3	II		
ICAO/IATA Additional information	Refer to ICAO/I	ATA Packing Instruction	-		•	
IMDG	UN1213	ISOBUTYL ACETATE	3	II	3	
IMDG Additional information	Consult the IMI	G regulations for exceptions.			•	

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:

Ingredients CAS # I	TSCA		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
	Quantity(RQ) (40 CFR 117.302):		Hazardous Substance, 40 CFR 355:	Toxic Chemical	de Minimis Concentration		
Isobutyl acetate	110-19-0	Yes	5000 lb final RQ (listed under Butyl acetate); 2270 kg final RQ (listed under Butyl acetate)	N/Av	No	N/Ap	

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:



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Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
<u></u>		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Isobutyl acetate	110-19-0	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
Isobutyl acetate	110-19-0	203-745-1	Present	Present	(2)-735; (2)-731	KE-00055	Present	HSR001092

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
	EPA: Environmental Protection Agency
	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
References	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 Lists
	6. California Proposition 65 List
	7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal
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:	06/02/2024



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Revision No.: 2Revision Information:Other special considerations for handling

: Provide adequate information, instruction and training for operators.



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