

# Comet Chemical Company Ltd.

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## Materials Safety Data - ISOBUTYL ACETATE

Shipping Name

Transport of Dangerous Goods Class

WHMIS Class

Material Use

UN - 1213

ISOBUTYL ACETATE

Class 3; Packing Group II

B 2

paint & lacquer solvent; perfumery, flavouring

### 1. HAZARDOUS INGREDIENTS

	CAS NUMBER	%	TWAEV (ppm)	LD <sub>50</sub> ORAL	(mg/kg) SKIN	LC <sub>50</sub> ppm INHALATION
Isobutyl Acetate	110-19-0	100%	150	4750	17,400	8000

### 2. PHYSICAL CHARACTERISTICS

Odour & Appearance	clear, colourless, liquid with pleasant fruity odour
Odour Threshold	1.1 ppm
Vapour Pressure	13mmHg / 1.7kPa (20°C)
Vapour Density (air = 1)	4
Boiling Point	117°C
Freezing Point	-99°C
Specific Gravity	0.873 (20°C)
Water Solubility	7 grams per litre (20°C); soluble in alcohols, ketones, & many hydrocarbons

### 3. FLAMMABILITY & REACTIVITY

Flash Point	17°C (closed cup)
Autoignition Temperature	421°C
Flammable Limits	1.3% - 10.5%
Hazardous Combustion Products	carbon monoxide, nitrogen oxides, smoke
Firefighting Precautions	foam, dry chemical, water fog, water spray only to cool, product floats on water - water jet spreads flames; firefighters must wear SCBA
Sensitivity to Static Discharge	not sensitive
Sensitivity to Mechanical Impact	not sensitive
Chemical Stability	stable; will not polymerize
Reactive With	strong oxidising agents; strong alkalies
Dangerous Decomposition Products	none apart from "Hazardous Combustion Products"

### 4. TOXICOLOGY

#### EFFECTS OF ACUTE EXPOSURE

Skin Contact	mild irritant
Skin Absorption	yes; no toxic effects anticipated by this route
Eye Contact	vapour and liquid irritating; effect may persist for days; no permanent damage expected
Inhalation	irritating; headache, dizziness, drowsiness, intoxication
Ingestion	headache, dizziness, drowsiness, intoxication; may cause unconsciousness

## (Isobutyl Acetate, cont'd)

### EFFECTS OF CHRONIC EXPOSURE

General	no known chronic effects
Sensitising	may be a mild sensitiser
Carcinogenic	no effects documented in experimental animals or humans
Reproductive Effect	no effects documented in experimental animals or humans
Synergistic With	not known
Estimated LD <sub>50</sub>	4750mg/kg (oral, rabbit), 13,400mg/kg (oral, rat); 17,400mg/kg (skin, rabbit)
Estimated LC <sub>50</sub>	above 8000ppm (inhalation, rat)

### 5. PROTECTIVE EQUIPMENT

Hands	polyvinyl alcohol (PVA, NOT PVC) gloves; also "4H"
Eyes	safety glasses with side shields or chemical goggles
Respirator	not required if ventilation is adequate (see TWAEV, (1) above), or use organic vapour cartridge
Clothing	impermeable (above) apron if splashing is anticipated

### 6. ENVIRONMENT

Leak Precaution	dyke to control spillage and prevent environmental contamination; if fire potential exists , blanket with foam as a precaution
Handling Spill inert	ventilate contaminated area; recover free liquid with explosion-proof pumps; absorb residue on an sorbent (dry sand, earth) and store in closed containers for disposal
Waste Disposal	<b>do not flush to sewer</b> ; may be incinerated in approved facility

### 7. STORAGE & HANDLING

Store and use in a cool dry environment, away from sources of ignition, heat and oxidising agents. Use with adequate ventilation. Ground the container before handling to prevent static discharge, which may cause ignition. Do not cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

### 8. FIRST AID

SKIN:	Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES:	Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is any irritation.
INHALATION:	Remove from contaminated area promptly. <b>CAUTION: Rescuer must not endanger himself!</b> If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION:	Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, keep victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this product. The stomach should be emptied under medical supervision, after the installation of an airway to protect the lungs.

Emergency telephone numbers	- weekdays from 8:00 - 5:00	(705) 436-5580
	at all other times	(800) 567-7455 (Philip Environmental)

Prepared for Comet Chemical Co. Ltd., by Nicholas Morgan, November 2002; Revised August 2005

*The information herein is given in good faith but no warranty, expressed or implied is made.*

**PLEASE ENSURE THAT THIS MSDS IS GIVEN TO AND EXPLAINED TO THE PERSON USING THIS PRODUCT.**