



Isopropenyl acetate

Safety Data Sheet

According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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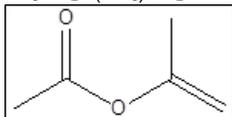
Safety Data Sheet

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. Product identifier

PRODUCT NAME : Isopropenyl acetate
 CAS RN : 108-22-5
 EC# : 203-562-7
 SYNONYMS : Prop-1-en-3-yl, acetate.
 TECHNICAL NAME : Isopropenyl Acetate
 MOLECULAR FORMULA : $\text{CH}_3\text{CO}_2\text{C}(\text{CH}_3)\text{CH}_2$
 STRUCTURAL FORMULA :



1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Isopropenyl acetate is used as an intermediate.

Uses advised against: None

1.3. Details of the supplier of the safety data sheet

Jubilant Ingrevia Limited

FACTORY & REGISTERED OFFICE: Jubilant Ingrevia Limited., Bhartiagram, Gajraula, District: Amroha, Uttar Pradesh-244223, India.
 T +91-5924-267437 & +91-5924-267438

HEAD OFFICE: Jubilant Ingrevia Limited., Plot 1-A, Sector 16-A, Institutional Area, Noida, Uttar Pradesh, 201301 - India
 T +91-120-4361000 - F +91-120-4234881 / 84 / 85 / 87 / 95 / 96 support@jubl.com - www.jubilantingrevia.com

1.4. Emergency telephone number

For Chemical Emergency ONLY (in the case of fire, leak, spill, exposure or accident) Call
 Chemtrec: 1-800-424-9300 (US), 1-703-527-3887 (Outside U.S.)
 Chemtrec (India) : 000-800-100-7141

For ALL other emergencies call Emergency Control Room Gajraula at 99970 22412

SECTION 2: HAZARD(S) IDENTIFICATION

2.1. Classification of the substance or mixture

GHS-US classification

Flammable Liquids: Category 2	H225	Highly flammable liquid and vapour.
Specific Target organ Toxicity: Category 3 (Single Exposure)	H335	May cause respiratory irritation.

2.2. Label Elements

Hazard Pictogram: GHS 02, GHS 07.



GHS 02



GHS 07

Signal Word: Danger!

HAZARD AND PRECAUTIONARY STATEMENTS:

HAZARD STATEMENTS

- H225: Highly flammable liquid and vapour.
- H335: May cause respiratory irritation

PRECAUTIONARY STATEMENTS

- P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.



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- P243: Take precautionary measures against static discharge.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P271: Use only outdoors or in a well-ventilated area.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312: Call a POISON CENTER/doctor/.../if you feel unwell.
- P403+P235: Store in well-ventilated place. Keep cool.
- P501: Dispose of contents/container to local/regional/national/international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	CAS #	EC#	Purity	GHS Classification
Isopropenyl acetate	108-22-5	203-562-7	≥98%	Flammable Liquids: Category 2 Specific Target organ Toxicity SE: Category 3

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Key symptoms

Acute effects:

- Isopropenyl acetate may cause skin irritation and eye irritation. Material is irritating to mucous membranes and upper respiratory tract.

Chronic effects:

- To the best of our knowledge, the chronic health effects of this product have not been fully investigated.

FIRST AID

- **Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with clean, running water for at least 15 minutes while keeping eyes open. Cool water may be used. Seek medical attention.
- **Skin Contact:** After contact with skin, wash with generous quantities of running water. Gently and thoroughly wash affected area with running water and nonabrasive soap. Cool water may be used. Cover the affected area with emollient. Seek medical attention. Wash any contaminated clothing prior to reusing.
- **Inhalation:** Remove the victim from the source of exposure to fresh, uncontaminated air. If victim's breathing is difficult, administer oxygen. Seek medical attention.
- **Ingestion:** Do NOT induce vomiting. Give water to victim to drink. Seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: 8.5 °C

Flammability: Highly flammable liquid

5.1. Extinguishing media

- *Appropriate extinguishing media:* **Small Fire-** Dry chemical, CO₂, water spray or alcohol-resistant foam. **Large Fire-** Water spray, fog or alcohol-resistant foam. Do not use straight streams.

5.2. Special Protective Equipment and Precautions for Fire Fighter

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Keep the containers cool by spraying water if exposed to heat or fire. Move containers out of hazard area if safe to do so.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering.

5.3. Advice for firefighters

- Evacuate the area and fight fires from a safe distance.
- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions or as per locally valid procedures.
- Fire fighters must wear Self Contained Breathing Apparatus (SCBA) and full protective clothing. The chemical is harmful in contact with skin.
- Move containers from fire area if you can do it without risk.
- Dike fire-control water for later disposal; do not scatter the material.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

5.4. Unusual fire and explosion hazard

- **HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.**
- Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.



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- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Vapor explosion hazard indoors, outdoors or in sewers.
- The substance may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- Containers may explode when heated.
- Many liquids are lighter than water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor-suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean, non-sparking tools to collect absorbed material.

Large Spill

- Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor, but may not prevent ignition in closed spaces.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
- Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

7.2. Storage

- Store in a cool place.
- Store in a dry and well ventilated place.
- Keep container tightly closed.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Store under inert gas.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits Values

Chemical name	NIOSH REL	OSHA PEL	ACGIH TLV
Isopropenyl acetate	None available	None available	None available

Exposure Limits (International):

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Germany (AGS)	10	46	20	92
Germany (DFG)	10	46	20	92
Spain	10	46	20	92
Switzerland	10	46	20	92

8.2. Exposure controls

Appropriate Engineering Controls:

- Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3. Personal Protection



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- **Eye/face protection:** Safety goggles/ Chemical Safety glasses and Face shield.
- **Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- **Body Protection:** Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- **Respiratory protection:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
For emergency situations, wear a positive pressure, pressure-demand, full face piece self-contained breathing apparatus (SCBA) or pressure-demand supplied air respirator with escape SCBA and a fully-encapsulating, chemical resistant suit. (EPA, 1998).

General Hygiene and general comments:

- Wash hands and face after working with the substance.
- Under no circumstances eat or drink at the workplace.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

- Information on basic physical and chemical properties.

Sr.No.	Parameter	Typical value
1.	Appearance	Colorless liquid
2.	Molecular weight	100.117 g/mol
3.	Refractive index	1.401 at 20 °C
4.	Odor	Fruity ester like odour
5.	Odor Threshold	Not Available
6.	pH	3 (34 g/l H ₂ O)
7.	Melting point	-93 °C
8.	Boiling Point	97 °C
9.	Flash point	8.5 °C
10.	Evaporation rate (n-BuAc=1)	Not Available
11.	Flammability	Highly flammable
12.	Upper/lower flammability or Explosive limits	1.8–7.8%
13.	Vapor pressure	45 mmHg at 25 °C
14.	Vapor density (air=1)	Not Available
15.	Relative density	0.920 to 0.924
16.	Solubility	Miscible in water 34g/L in water (20°C). Other solubilities: miscible with nearly all organic solvents. Soluble in ethanol and acetone. Very soluble in ethyl ether.
17.	Partition coefficient : n-(Octanol / water)	1.41
18.	Auto-ignition temperature	411 °C
19.	Viscosity	Not Available
20.	Explosive property	Vapors may form explosive mixtures with air

SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage conditions.
- **Conditions to avoid:** Heat, flames and sparks, extremes of temperature and direct sunlight.
- **Incompatible chemicals:** Oxidizing agents, Bases, acids, Peroxides
- **Hazardous decomposition products:** Thermal decomposition may produce Carbon monoxide, carbon dioxide. When heated to decomposition it emits irritating fumes and corrosive gases.
- **Hazardous Polymerization:** It may polymerize explosively when heated or involved in a fire.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity



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- Isopropenyl acetate may cause skin irritation and eye irritation. Material is irritating to mucous membranes and upper respiratory tract.

Test Type	Specie	Route	Dose
LD50	Rat	Oral	3,000 mg/kg
LC50	Rat	Inhalation	> 22 mg/L

RTECS#: UD4200000

Skin corrosion/irritation	:	No data available.
Eye damage/irritation	:	No data available.
Respiratory or skin sensitization	:	No data available.
Germ cell Mutagenicity	:	No data Available
Carcinogenicity	:	No classification data on carcinogenic properties of this material is available from EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity	:	No data available
STOT-single exposure	:	Lungs- May cause irritation to respiratory system.
STOT- repeated exposure	:	No data available.
Aspiration Hazards	:	No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

- No data available.

12.2. Persistence and degradability

- No data available.

12.3. Bio accumulative potential

Isopropenyl acetate (108-22-5)	
Bio concentration factor	1.913
Log Kow	1.28

Based on the Log Kow and Bio concentration factor value it is expected to have low potential to concentrate in fatty tissue of fish and aquatic organisms relative to its surroundings.

12.4. Mobility in soil

Isopropenyl acetate (108-22-5)	
Log Koc	0.977 (Low sorption).
Henry's Law constant	1.83×10^{-03} atm-m ³ /mole
Log Kow	1.28 (Low potential to bio accumulate).

12.5. Other adverse effects

- Environment Fate:**
Based on the environmental modeling, this material has a low potential to get absorbed in the organic matter of soil and is expected to be volatile from aqueous bodies. The values (Kow & Koc) indicate that isopropenyl acetate is expected to have high mobility in soil. The BCF suggests that bio concentration in aquatic organisms is low. Since this is an estimated result it is recommended that the material should not be disposed into the environment. The material should never be disposed into the sewage.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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- Burn in a chemical incinerator equipped with an afterburner and scrubber.
- Exert extra care in igniting, as this material is combustible.
- Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws. Note that disposal regulations may also apply to empty containers and equipment reinstates.

SECTION 14: TRANSPORT INFORMATION

- This substance is considered to be Hazardous for transport by Air/Rail/Road and Sea and thus it is regulated by IATA/ ICAO/ ARD/ RID/ IMO/ IMDG/ US DOT.

S.No	Agency	UN Number	Proper Shipping name	Hazard Class	Packing Group
Land Transport	ADR/RID/DOT	UN 2403	ISOPROPENYL ACETATE	3	II
Maritime Transport	IMDG	UN 2403	ISOPROPENYL ACETATE	3	II
Air Transport	IATA	UN 2403	Isopropenyl acetate	3	II
Hazard Label		Flammable Liquid			

SECTION 15: REGULATORY INFORMATION

Classification (as per Regulation (EC) No 1272/2008):

- **Hazards Class and Category:** Flamm. Liquid Cat 2, STOT SE Cat 3.
- **Hazard Statements:** H225; H335.

Chemical Inventory Lists:	Status
TSCA:	Listed
EC/ List No.	203-562-7
Canada(DSL/NDSL):	Listed (DSL)
Korea:	Listed (KECI)
Australia:	Listed (AICS)
Taiwan	Listed (TCSI)
New Zealand	Listed (NZIoC)
Philippines	Listed (PICCS)
China	Listed (IECSC) (Catalog of Hazardous Chemicals)

US information

- **TSCA**
CAS# 108-22-5 is listed on the Toxic Substances Control Act Inventory (TSCA) inventory.
- **Clean Air Act:**
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depleters.
This material does not contain any Class 2 Ozone depleters.
- **Clean Water Act:**
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.



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- **OSHA**
It is not considered highly hazardous by OSHA.
- **CANADA-DSL/NDSL**
The substance is listed in DSL (Domestic Substance List)
- **California Prop 65**
California No Significant Risk Level: This product is not listed.

SECTION 16: OTHER INFORMATION

a) Compilation information of safety data sheet

Date of compilation	: December 21, 2016
Chemical	: Isopropenyl acetate
CAS #	: 108-22-5
File Name	: 0805Gj Ghs06 Div.5 sds Isopropenyl acetate
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b) A key or legend to aberrations and acronyms used in the safety data sheet

- PBT = Persistent Bio accumulative and Toxic.
- vPvB= Very Persistent and Very Bio accumulative.
- SCBA= Self Contained Breathing Apparatus.
- NIOSH REL= National Institute for Occupational Safety and Health Recommended Exposure Limit.
- OSHA PEL=Occupational Safety and Health Administration Permissible Exposure Limit.
- OELTWA= Occupational Exposure Limit Time Weighted Averages.
- RTECS= Registry of Toxic Effects of Chemical Substances.
- NTP=National Toxicology Program.
- IARC= International Agency for Research on Cancer.
- EPA=Environmental Protection Agency.
- TSCA= Toxic Substances Control Act.
- SARA= Superfund Amendments and Reauthorization Act.
- WHIMS= Workplace Hazardous Materials Information System.
- DSL/NDSL= Domestic/Non-Domestic Substances List.
- BCF = Bio Concentration Factor.
- TLV = Threshold Limit Value.
- ACGIH = American Conference of Governmental Industrial Hygienists.
- REACH = Registration, Evaluation .Authorization and Restriction of Chemicals.
- CLP = Classification, Labeling and Packaging.
- LD / LC = Lethal Doses / Lethal Concentration.
- GHS = Globally Harmonized System.
- ADR = Accord European relative au transport international de marchandises.
- IMDG-Code = International Maritime Code for Dangerous Goods.
- EmS = Emergency measures on Sea.
- ICAO = International Civil Aviation Organization.
- IATA/DGR= International Air Transport Association/Dangerous Goods Regulation.

c) Key Literature reference and sources for data

Biographical reference and data sources

- Globally Harmonized System of Classification and Labelling of Chemicals.
- CLP REG (regulation) (EC) no. 1272/2008, last modification by regulation (EC) no. 790/2009.
- RTECS

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

(End of Safety Data Sheet)