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	ISOPROPYL ACETATE (IPAC)	Effective From	25.03.2017

MATERIAL SAFETY DATA SHEET

SECTION # 1: PRODUCT INFORMATION

1.1. Product identifier

Product Name : Isopropyl acetate
CAS No : 108-21-4
EC No : 203-561-1
REACH registration number : 01-21195372XXXX-0004

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

Recommended Use Used as a medicine of the extraction agent, manufacturing essence, paint and other solvents and reagents, etc.

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Only representative : REACH24H CONSULTING GROUP
Address : Paramount Court, Corrig Road, Sandyford, Dublin 18, Ireland
Seller : Bloomchemag Private India Limited

Address : Assotech Business Cresterra (ABC), Unit 108, Tower 1,
 Sector 135, Noida - 201301 India
 Tel : +91 9871371594/ +91 7291974481

SECTION # 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids Category 2 - (H225)
 Serious eye damage/eye irritation Category 2 - (H319)
 Specific target organ toxicity (single exposure) Category 3 - (H336)

2.2. Label elements

Labeled Contents:



Signal word



Danger



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Hazard Statements

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

Precautionary Statements P271 - Use only outdoors or in a well-ventilated area

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container to industrial incineration plant

EU Specific Hazard Statements EUH066 - Repeated exposure may cause skin dryness or cracking

2.3. Other hazards

No information available

SECTION # 3: COMPOSITION OF MIXTURE

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isopropyl acetate	203-561-1	108-21-4	100	Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225)

SECTION # 4: FIRST AID MEASURES**4.1. Description of first aid measures****General advice**

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact


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.

Ingestion

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause drowsiness or dizziness.

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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION # 5: FIRE FIGHTING MEASURE

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

The substance forms an explosive mixture with air.

Thermal decomposition can lead to release of irritating and toxic gases and vapours, such as carbon monoxide, carbon dioxide, propane, propene, methane.

5.3. Advice for firefighters

Cool surrounding containers with water spray.

If possible, take container out of dangerous zone.

Heating causes a rise in pressure, risk of bursting and explosion.

Shut off sources of ignition.

Beware of backfire.

Use only explosion proved equipment.

Explosion danger by penetration into sewerage.

Wear self-contained breathing apparatus.

Wear a special tightly sealed suit.

SECTION # 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas

Ensure adequate ventilation, especially in confined areas

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)

Avoid contact with skin, eyes or clothing

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Use personal protection recommended in Section 8

Wash thoroughly after handling

6.2. Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Shut off all sources of ignition.

Evacuate area. Warn affected surroundings.

Wear respiratory protection, eye protection, hand protection and body protection (see chapter Personal Protection).

Absorb any spilt liquid with an absorbent (e.g. diatomite, vermiculite, sand) and dispose of according to regulations.



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Pump off larger quantities.
Use non-sparking tools.
Afterwards ventilate area and wash spill site.

6.4. Reference to other sections

See Section 7 for more information
See section 8 for more information
See section 13 for more information

SECTION # 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Take care to maintain clean working place.
The substance must not be present at workplaces in quantities above that required for work to be progressed.
Do not leave container open.
Use leak-proof equipment with exhaust for refilling or transfer.
Do not transport with/using compressed air.
Avoid splashing.
Fill only into labelled container.
Use solvent resistant utensils.
Avoid any contact when handling the substance.
Use an appropriate exterior vessel when transporting in fragile containers.

7.2. Conditions for safe storage, including any incompatibilities

Do not use any food containers - risk of mistake.
Containers have to be labelled clearly and permanently.
Store in the original container as much as possible.
Use breakable containers only up to 2 litres content.
Keep container tightly closed.
Recommended storage at room temperature.
Store in a dry place.
Keep container in a well-ventilated place.
Store in a fire resistant place.
Store apart from sources of ignition and heat.
Store smaller vessels in cabinets with collecting tubs.
Install sufficiently large collection rooms (depressions, walls, or stable freestanding walls).
Protect from overheating/heating up.
Storage is not permissible in hallways, thoroughfare, stairways, public hallways and corridors, on the roof, in attics, and in workrooms.

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

SECTION # 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
Isopropyl acetate (CAS #: 108-21-4)	250 ppm 1040 mg/m ³ 310 ppm STEL 1290 mg/m ³ STEL	STEL 100 ppm STEL 420 mg/m ³ TWA: 100 ppm TWA: 420 mg/m ³ Ceiling 100 ppm Ceiling 420 mg/m ³		- TWA: 150 ppm TWA: 625 mg/m ³	

Chemical Name	Latvia	France	Finland	Germany	Italy
Isopropyl acetate (CAS #: 108-21-4)		TWA: 250 ppm TWA: 950 mg/m ³ STEL: 300 ppm STEL: 1140 mg/m ³	TWA: 100 ppm TWA: 420 mg/m ³ STEL: 200 ppm STEL: 850 mg/m ³	TWA: 100 ppm TWA: 420 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 840 mg/m ³	

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Isopropyl acetate (CAS #: 108-21-4)	STEL: 1000 mg/m ³ TWA: 600 mg/m ³	STEL: 200 ppm TWA: 100 ppm	STEL: 200 ppm STEL: 850 mg/m ³ TWA: 100 ppm TWA: 425 mg/m ³	STEL: 200 ppm STEL: 840 mg/m ³ TWA: 100 ppm TWA: 420 mg/m ³	

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl acetate (CAS #: 108-21-4)	TWA: 100 ppm TWA: 420 mg/m ³ STEL: 100 ppm STEL: 420 mg/m ³	STEL: 200 ppm STEL: 849 mg/m ³	STEL: 200 ppm TWA: 100 ppm	TWA: 250 ppm TWA: 950 mg/m ³ (vacated) TWA: 250 ppm (vacated) TWA: 950 mg/m ³ (vacated) STEL: 310 ppm (vacated) STEL: 1185 mg/m ³	IDLH: 1800 ppm

Derived No Effect Level (DNEL)

Inhalation	Worker - inhalative, long-term – systemic	420 mg/m ³
	Worker - inhalative, short-term – systemic	850 mg/m ³
	General Population - inhalative, long-term – systemic	252 mg/m ³
	General Population - inhalative, long-term – systemic	510 mg/m ³
Dermal	Worker - dermal, long-term – systemic	43 mg/kg bw/day
	General Population - dermal, long-term – systemic	26 mg/kg bw/day
Oral	General Population - oral, long-term - systemic	26 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh Water	0.22 mg/L, Assessment factor 500
Sea Water	0.022 mg/L Assessment factor 5000
Intermittent releases	1.1 mg/L Assessment factor 100



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Freshwater sediment	1.25 mg/kg sediment dw
Sea sediment	0.125 mg/kg sediment dw
Soil	0.35 mg/kg soil dw
STP	190 mg/L Assessment factor 1

8.2. Exposure controls

Engineering Controls

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	Sufficient eye protection must be worn. Wear glasses with side protection.
Hand Protection	Wear protective gloves.
Skin and body protection	Wear an apron or a lab coat. The protection clothing should be solvent resistant. Wear flameproof, antistatic protective clothing.
Respiratory protection	In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn. Consider the maximum period for wear. Respiratory protection: Gas filter A, Color code brown. Use insulating device for concentrations above the usage limits for filter devices, for oxygen concentrations below 17% volume, or in circumstances which are unclear.

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

SECTION # 9: PHYSICAL AND CHEMICAL PROPERTIES / CHARACTERISTICS

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Aromatic sweet
Odour Threshold	Not determined
pH	Not determined
Melting point/freezing point	< -70 °C
Boiling point / boiling range	88.5 °C
Flash point	5 °C
Evaporation rate	Not determined
Flammability	Highly flammable liquid and vapor
Flammability Limit in Air	1.8 - 8%
Vapor Pressure	6.07 kPa
Vapor density	Not determined
Density	883.8 kg/m ³
Relative density	Not determined
Specific gravity	Not determined



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Water solubility	31.9 g/L
Partition coefficient (LogPow)	log Pow = 1.28
Autoignition temperature	460 °C
Decomposition temperature	Decomposition on exposure to light
Kinematic viscosity	0.602 mm ² /s
Dynamic viscosity	Not determined
Explosive properties	Substance forms an explosive mixture with air
Oxidizing properties	Not determined

9.2. Other information

No information available

SECTION # 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

The substance can react dangerously with: bases, oxidizing agents, acids.

The substance forms an explosive mixture with air.

10.4. Conditions to avoid

Heat, flames and sparks. Exposure to light. Incompatible materials.

10.5. Incompatible materials

Bases, oxidizing agents, acids.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, propane, propene, methane.

SECTION # 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl acetate (CAS #: 108-21-4)	6750 mg/kg (Rat)	> 20 mL/kg (Rabbit) > 17400 mg/kg (Rabbit)	= 50600 mg/m ³ (Rat) 8 h

Skin corrosion/irritation

Slightly irritating to skin.

Serious eye damage/eye irritation



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Causes serious eye irritation.

Sensitization

No sensitization responses were observed.

Germ cell mutagenicity

Not classified.

Carcinogenicity

No information available

Reproductive toxicity

Not classified.

STOT - single exposure

May cause drowsiness or dizziness.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION # 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Isopropyl acetate (CAS #: 108-21-4)	165: 8 d Scenedesmus quadricauda mg/L EC3	265: 48 h Leuciscus idus melanotus mg/L LC50	110: 48 h Artemia salina mg/L EC50

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

Material does not bioaccumulate.

Chemical Name	Partition coefficient (LogPow)
Isopropyl acetate (CAS #: 108-21-4)	1.03


12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

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No information available

SECTION # 13: DISPOSAL INFORMATION

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations

SECTION # 14: TRANSPORT INFORMATION

14.1 UN Number	1220
14.2 Proper shipping name	ISOPROPYL ACETATE
14.3 Hazard Class	3
14.4 Packing Group	II
14.5 Environmental hazards	Non-marine pollutant
14.6 Special precautions	No information available
14.7 Transport in bulk according to Annex II of	Not applicable

MARPOL 73/78 and the IBC Code

SECTION # 15: REGULATION INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values


Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Component	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Isopropyl acetate 108-21-4 (100%)	X	X	X	X	X	X	X	X

"-" Not Listed

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"X" Listed

15.2. Chemical safety asses

SECTION # 16: INTENDED USE

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapor

EUH066 - Repeated exposure may cause skin dryness or cracking

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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