



Registered Name: **BizinBiz Technologies Private Limited**
Registered Address: 3/8 2nd Floor, Asaf Ali Road, Above Dabur
India Pvt. Ltd., New Delhi, India, 110002
CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**
IEC: AAJCB9425C

MATERIAL SAFETY DATA SHEET

Section 1. Identification and Supplier Information

Product Name	Isoamyl alcohol
Cat No. :	A393-4, A393-500
CAS No Synonyms	123-51-3 Isoamyl alcohol; Isopentyl alcohol
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Supplier: Elchemy

Company Address: A-448, Pocket 2, Sector 8, Rohini, New Delhi, Pin Code: 110085, India

Company Web Site: www.elchemy.com

Emergency Phone Number: +919867099519 (24 Hrs)

Email Id: info@elchemy.com

Section 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2



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Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word

Warning

Hazard Statements

Flammable liquid and vapor
Harmful if inhaled
Causes skin irritation

Precautionary Statements

Prevention

- Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool

Response

- Get medical attention/advice if you feel unwell

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell



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Skin

- If skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse

Eyes

- 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

Fire

- In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

- Store in a well-ventilated place. Keep container tightly closed
- Store locked up

Disposal

- Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

Section 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Isoamyl alcohol	123-51-3	>95

Section 4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists.



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Valve or other proper respiratory medical device. Get medical attention. If not breathing, give artificial respiration.	
Ingestion	Do NOT induce vomiting. Get medical attention.
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Treat symptomatically.

Section 5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	45 °C / 113 °F
Method	No information available
Autoignition Temperature	365 °C / 689 °F

Explosion Limits

- Upper: 8.0 vol %
- Lower: 1.2 vol %

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products



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Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

- Health: 2
- Flammability: 2
- Instability: 0
- Physical hazards: N/A

Section 6. Accidental release measures

Personal Precautions Environmental Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Should not be released into the environment. See Section 12 for additional Ecological Information.
Methods for Containment and Clean Up	Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

Section 7. Handling and storage

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing agents. Metals. Alkali metals. Halogens. Acids. Acid anhydrides. Acid chlorides. Isocyanates.

Section 8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Isoamyl alcohol	TWA: 100 ppm STEL: 125 ppm	(Vacated) TWA: 100 ppm (Vacated) TWA: 360 mg/m ³ (Vacated) STEL: 125 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 360 mg/m ³	TWA: 100 ppm STEL: 125 ppm



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	(Vacated) STEL: 450 mg/m ³ TWA: 100 ppm TWA: 360 mg/m ³	STEL: 125 ppm STEL: 450 mg/m ³	
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Legend

- ACGIH - American Conference of Governmental Industrial Hygienists
- OSHA - Occupational Safety and Health Administration
- NIOSHIDLH. NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tight sealing safety goggles. Face protection shield.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and chemical properties

Physical State	Liquid
Appearance	Clear
Odor	Characteristic
Odor Threshold	No information available
pH	6.5 25 g/l aq.sol



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Melting Point/Range	-117 °C / -178.6 °F
Boiling Point/Range	130 - 132 °C / 266 - 269.6 °F 760 mm HG
Flash Point	45 °C / 113 °F
Evaporation Rate	No information available
Flammability (solid, gas)	Not applicable
Flammability or explosive limits	
Upper	8.0 vol %

Autoignition Temperature	365 °C / 689 °F
Decomposition Temperature	335 °C
Viscosity	4.3 mPa S at 20 °C
Molecular Formula	C5 H12 O
Molecular Weight	88.15

Section 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents, Metals, Alkali metals, Halogens, Acids, Acid anhydrides, Acid chlorides, Isocyanates
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

Section 11. Toxicological information

Acute Toxicity

Product Information



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Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isoamyl alcohol	LD50 = 5770 mg/kg (Rat)	LD50 = 3250 mg/kg (Rabbit)	LC50 > 2000 ppm (Rat) 8 h

Toxicologically Synergistic Products: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Irritating to eyes and respiratory system
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Isoamyl alcohol	123-51-3	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	Respiratory system None known

Endocrine Disruptor Information: No information available

Other Adverse Effects: Tumorigenic effects have been reported in experimental animals.

Section 12. Ecological information

Ecotoxicity

This product contains the following substance(s) which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
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Isoamyl alcohol	EC50: = 493 mg/L, 72h (Desmodesmus subspicatus) EC50: = 181 mg/L, 96h (Desmodesmus subspicatus)	LC50 96 h 700 mg/L (rainbow trout)	EC50 = 2500 mg/L 17 h	EC50: = 260 mg/L, 48h (Daphnia magna)
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Persistence and Degradability: Soluble in water. Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation: No information available.

Mobility: Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Isoamyl alcohol	1.28

Section 13. Disposal considerations

Waste Disposal Methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14. Transport information

DOT

UN-No	UN1105
Proper Shipping Name	PENTANOLS
Technical Name	(3-METHYL-1-BUTANOL)
Hazard Class	3
Packing Group	III

TDG

UN-No	UN1105
Proper Shipping Name	PENTANOLS



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Hazard Class	3
Packing Group	III

IATA

UN-No	UN1105
Proper Shipping Name	PENTANOLS
Hazard Class	3
Packing Group	III

IMDG/IMO

UN-No	UN1105
Proper Shipping Name	PENTANOLS
Hazard Class	3
Packing Group	III

Section 15. Regulatory information

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
	123-51-3	Yes	No -	204-633-5	Yes	Yes	Yes	Yes	Yes	KE-23575



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Isoamyl alcohol										
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U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Isoamyl alcohol	Yes	Yes	Yes X	No -	Yes X

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant: N

DOT Severe Marine Pollutant: N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade: Moderate risk, Grade 2



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Authorisation/Restrictions according to EU REACH

Pollutant	Potential	Hazardous Substances (RoHS)			
Isoamyl alcohol	123-51-3	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Isoamyl alcohol	123-51-3	Not applicable	Not applicable	Not applicable	Not applicable

Section 16. Other information

Prepared By	BizinBiz Technologies Private Limited (Elchemy)
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910. 1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this 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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