

Printing date 01/16/2024

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Trade name: Iso amyl alcohol natural



CAS: 123-51-3 Isoamyl alcohol

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- · Identification number(s)
- **EC number:** 204-633-5

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

- Ensure adequate ventilation.
- Reference to other sections
- See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- Protective Action Criteria for Chemicals
- · PAC-1:

125 ppm

PAC-2:

1700* ppm

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· PAC-3:

10000** ppm

7 Handling and storage

· Handling:

 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
 Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.

Please refer to the product specification and/or Certificate of Analysis for product storage requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

 Components with limit values that require monitoring at the workplace: CAS: 123-51-3 Isoamyl alcohol

- PEL Long-term value: 360 mg/m³, 100 ppm primary and secondary
- REL Short-term value: 450 mg/m³, 125 ppm Long-term value: 360 mg/m³, 100 ppm primary and secondary
- TLV Short-term value: 125 ppm Long-term value: 100 ppm

• Additional information: The lists that were valid during the creation were used as a basis.

- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

Information on basic physical and chemical properties		
General Information	Molecular Weight: 88 g/mol	
Appearance:		
Form:	Liquid	
Color:	According to product specification	
Odor:	According to product specification	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-117.2 °C (-179 °F)	
Boiling point/Boiling range:	131-132 °C (267.8-269.6 °F)	
Flash point:	43.5 °C (110.3 °F)	
Flammability (solid, gaseous):	Flammable.	
Auto igniting:	340 °C (644 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.	
Explosion limits:		
Lower:	1.2 Vol %	
Upper:	~8 Vol %	



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Vapor pressure at 20 °C (68 °F):	2.7 hPa (2 mm Hg)
Density at 20 °C (68 °F):	0.81 g/cm³ (6.75945 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water at 20 °C (68 °F):	25 g/l
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	100.0 %
VOC content:	100.00 %
	810.0 g/l / 6.76 lb/gal
Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information					
 Information on toxicological effects Acute toxicity: 					
· LD/LC5	· LD/LC50 values that are relevant for classification:				
CAS: 12	CAS: 123-51-3 Isoamyl alcohol				
Oral	LD50	4,000 mg/kg (ATE)			
Dermal	LD50	3,216 mg/kg (ATE)			
		3,212 mg/kg (rabbit)			
on the s on the e Sensitiz	 Primary irritant effect: on the skin: No irritant effect. on the eye: Strong irritant with the danger of severe eye injury. Sensitization: No sensitizing effects known. Additional toxicological information: 				
· Carcinogenic categories					
· IARC (Ir	· IARC (International Agency for Research on Cancer)				
Substan	ice is r	not listed.			
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· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, IMDG, IATA	UN1105	
UN proper shipping name		
DOT	Pentanols	
IMDG, IATA	PENTANOLS	



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Trade name: Iso amyl alcohol natural (Continuation of page 7) · Transport hazard class(es) · DOT · Class **3** Flammable liquids · Label 3 · IMDG, IATA · Class **3 Flammable liquids** · Label 3 · Packing group · DOT, IMDG, IATA Ш · Environmental hazards: • Marine pollutant: No Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-D Stowage Category А · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · DOT · Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L ·IMDG · Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation":

UN 1105 PENTANOLS, 3, III

15 Regulatory information

 $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Sara

Section 355 (extremely hazardous substances):

Substance is not listed.

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	Section 313 (Specific toxic chemical listings):
,	Substance is not listed.
	TSCA (Toxic Substances Control Act):
1	ACTIVE
	Hazardous Air Pollutants
	Substance is not listed.
	Proposition 65
	Chemicals known to cause cancer:
	Substance is not listed.
	Chemicals known to cause reproductive toxicity for females:
	Substance is not listed.
(Chemicals known to cause reproductive toxicity for males:
	Substance is not listed.
	Chemicals known to cause developmental toxicity:
	Substance is not listed.
(Carcinogenic categories
	EPA (Environmental Protection Agency)
	Substance is not listed.
	TLV (Threshold Limit Value)
	Substance is not listed.
	NIOSH-Ca (National Institute for Occupational Safety and Health)
	Substance is not listed.
	GHS label elements Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



· Signal word Danger

Hazard-determining components of labeling: Isoamyl alcohol
Hazard statements H226 Flammable liquid and vapor. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. · Department issuing SDS: Product Safety Department · Contact: Product Safety Department productsafety@adv-bio.com · Date of preparation / last revision 01/16/2024 · Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Flammable Liquids 3: Flammable liquids - Category 3 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3