



Product Name: Isoamyl alcohol CAS No.: 123-51-3 Version: 0

#### 1. Identification

**Product Code** : 90432, 90281

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# 2. Composition/Information on Ingredients

IngredientCAS NoPercentISOAMYL ALCOHOL123-51-360-100%

#### 3. Hazards Identification

#### Hazard classification

Physical hazards

Flammable liquids : Category 3

**Health hazards** 

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation - vapor) : Category 4
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2
Specific target organ toxicity - single Category 3

exposure

Labels elements Hazard symbol



Signal word : Warning

**Hazard statement** : Flammable liquid and vapor.

Harmful if swallowed. Causes skin irritation.

Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

**Precautionary statement** 





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**Prevention** 

: 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. Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Response

: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. 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. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

**Storage** 

: Store in a well-ventilated place. Keep cool. Store locked up. Keep cool

**Disposal** 

: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification

: None.

#### 4. First Aid Measures

General information

: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.

**Ingestion** 

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation

: Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration.

Skin contact

: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Eye contact

: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention

immediately.





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Most important symptoms/effects, acute and delayed

**Indication of immediate medical** attention and special treatment needed

to eyes, respiratory system and skin.

Treat symptomatically. Symptoms may be delayed.

#### 5. Fire fighting measures

General fire hazards Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media Specific hazards arising from the

chemical

Avoid water in straight hose stream; will scatter and spread fire. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back.

Prevent buildup of vapors or gases to explosive concentrations. Heat may cause the containers to explode.

Harmful if swallowed. Harmful if inhaled. Narcotic effect. Irritating

Special protective equipment and precautions for firefighters

Special fire fighting procedures Use water spray to keep fire-exposed containers cool. Water may be

> ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for

fire-fighters

Firefighters must use standard protective equipment including flame

retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Methods and material for containment and cleaning up Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use only non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far

ahead of larger spill for later recovery and disposal.

**Notification Procedures** Prevent entry into waterways, sewer, basements or confined areas.

Inform authorities if large amounts are involved.

**Environmental precautions** Do not contaminate water sources or sewer. Prevent further leakage

or spillage if safe to do so.





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## 7. Handling and Storage

#### **Precautions for safe handling**

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/face protection. Use only with adequate ventilation. Wash hands thoroughly after handling. Avoid contact with eyes. Avoid contact with skin. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse.

# Conditions for safe storage, including any incompatibilities

: Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

# 8. Exposure Controls Personal Protection

## Control parameters Occupational exposure limits

<b>Chemical identity</b>	Type	<b>Exposure Limit values</b>	Source	
ISOAMYL ALCOHOL	TWA	100 ppm	US. ACGIH Threshold Limit Values (2011)	
	STEL	125 ppm	US. ACGIH Threshold Limit Values (2011)	
	STEL	125 ppm 450 mg/m3	US. NIOSH: Pocket Guide to Chemical	
			Hazards (2010)	
	REL	100 ppm 360 mg/m3	US. NIOSH: Pocket Guide to Chemical	
			Hazards (2010)	
	PEL	100 ppm 360 mg/m3	US. OSHA Table Z-1 Limits for Air	
			Contaminants (29 CFR 1910.1000) (02 2006)	
	TWA	100 ppm 360 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)	
			(1989)	
	STEL	125 ppm 450 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)	
			(1989)	

**Appropriate engineering controls** 

No data available.

Individual protection measures, such as personal protective equipment

**General information** 

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation





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equipment.

**Eye/face protection** : Wear safety glasses with side shields (or goggles).

**Hand protection** : Chemical resistant gloves.

Other : Wear suitable protective clothing.

**Respiratory protection** : In case of inadequate ventilation use suitable respirator.

**Hygiene measures** : Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants. Provide eyewash station and safety shower.

#### 9. Physical and Chemical Properties

**Appearance** : Colorless Oily liquid .

Odor : Characteristic pH : No data available.

range

Flash Point : 43 °C

Vapor pressure: 0.32 kPa (25 °C)Vapor density: 3.04 AIR=1

**Relative density** : 0.81

**Solubility in water** : 20 g/l (13.9 °C) **Solubility (other)** : No data available.

Formula : C5H12O Molecular Weight : 88.15 g/mol

# 10. Stability and Reactivity

**Reactivity** : No dangerous reaction known under conditions of normal use.

**Chemical stability** : Material is stable under normal conditions. **Possibility of hazardous reactions** : Hazardous polymerization does not occur.

Conditions to avoid: Heat, sparks, flames.Incompatible materials: Strong oxidizers .

Hazardous decomposition products : Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

## 11. Toxicological Information

#### Information on likely routes of exposure

**Ingestion** : Harmful if swallowed.

**Inhalation**: Harmful if inhaled. Irritating to respiratory system. May cause

drowsiness or dizziness.

**Skin contact**: May be absorbed through the skin. Causes skin irritation.

**Eye contact** : Causes serious eye damage.

Information on toxicological effects





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**Acute toxicity (list all possible routes of exposure)** 

Oral Product : LD 50 (Rat): 1,300 mg/kg

LD 50 (Rabbit): 3,400 mg/kg

**Dermal Product** : LD 50 (Rabbit): 3,970 mg/kg

Inhalation Product
 Repeated dose toxicity Product
 Skin corrosion/irritation Product
 Causes skin irritation.

Serious eye damage/eye irritation

**Product** 

: Causes serious eye irritation.

No carcinogenic components identified

No carcinogenic components identified

No carcinogenic components identified.

Respiratory or skin sensitization

Product

Not a skin sensitizer.

**Carcinogenicity Product** : This substance has no evidence of carcinogenic properties.

IARC Monographs on the

**Evaluation of Carcinogenic Risks** 

to Humans DIOXANE

**US. National Toxicology Program** 

(NTP) Report on Carcinogens

**DIOXANE** 

**US. OSHA Specifically Regulated** 

Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product
 In vivo Product
 Reproductive toxicity Product
 Specific target organ toxicity No mutagenic components identified
 No components toxic to reproduction
 Narcotic effect. Respiratory tract irritation.

single exposure Product

Specific target organ toxicity -

repeated exposure Product

**Aspiration hazard Product** 

: No data available

: May be harmful if swallowed and enters airways.

Other effects : None known.

#### 12. Ecological Information

**Ecotoxicity** 

Acute hazards to the aquatic environment:

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Chronic hazards to the aquatic environment:

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: No data available.

Persistence and degradability

**Biodegradation Product**: The product is not expected to be biodegradable.





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**BOD/COD** ratio Product Bioaccumulative potential

**Bioconcentration factor (BCF)** 

**Product** 

Partition coefficient n-octanol / water (log Kow) Product

Mobility in soil

Other adverse effects

: No data available.

: No data available on bioaccumulation.

: Log Kow: 1.16

: No data available.

: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on

the environment.

## 13. Disposal consideration

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state,

or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated packaging Since emptied containers retain product residue, follow label

warnings even after container is emptied.

#### 14. Transport Information

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant
			Class(es)	group	
DOT	UN 1105	Pentanols	3	III	No
IMDG	UN 1105	Pentanols	3	III	No
IATA	UN 1105	Pentanols	3	III	No

#### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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#### 16. Other Information

#### NFPA Hazard ID





Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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