

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Isoamyl Alcohol, Natural**
 Product Number: **0205700**
 Recommended Use: Flavorings

Manufacturer: Aurochemicals
 7 Nicoll Street
 Washingtonville, NY 10992- USA
 845-496-6065
 845-496-6248 Fax

Emergency Telephone No.: 1-800-535-5053
 (International 1-352-323-3500 collect)

Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards: Combustible Liquid, Target Organ Effect, Irritant
 Target Organs: Central nervous system
 GHS Classification: Flammable Liquid (Category 3)
 Skin Irritant (Category 2)
 Eye irritation (Category 2A)
 Acute toxicity, Inhalation (Category 4)
 Acute Toxicity, Dermal (Category 5)

GHS Label elements, including precautionary statement



Signal Word: WARNING

Hazard Statement(s)

H226 Flammable liquid and vapor
 H315 Causes skin irritation
 H313 May be harmful in contact with skin
 H319 Causes serious eye irritation
 H332 Harmful if inhaled

Precautionary Statement(s)

IF IN EYES
 P305 Rinse cautiously with water for several minutes
 P351 Remove contact lenses if present and easy to do
 P338 Continue rinsing
 P210 Keep away from heat/sparks/open flames/hot surfaces-No Smoking
 P243 Take precautionary measures against static discharge
 P260 Do not breathe dust/fume/gas/mist/vapors/spray
 P280 Wear protective gloves/protective clothing/eye protection/face protection

	P262	Do not get in eyes, on skin or on clothing.
	P403+P233	Store in a well ventilated place. Keep container tightly closed.
	P501	Dispose of contents/container to an approved waste disposal plant.
HMIS Classification		
	Health Hazard	2
	Chronic Health Hazard	*
	Flammability	2
	Physical Hazards	0
Potential Health Effects		
	Inhalation	May be harmful if inhaled. Causes respiratory tract irritation
	Skin	May be harmful if absorbed through skin. Causes skin irritation
	Eyes	Causes eye irritation
	Ingestion	May be harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical Name	Isoamyl Alcohol
Common Name:	Isoamyl Alcohol
Synonyms:	Isopentyl alcohol; 3-Methyl 1-butanol
CAS #	123-51-3
EC#	204-633-5
Index-No.	603-006-00-7
Molecular Formula	C ₅ H ₁₂ O
Molecular Weight	88.15 g/mol

Section 4: FIRST AID MEASURES

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water.
Contact with skin:	Rinse with cool water; wash with mild soap and warm water. Seek medical advice.
Inhalation:	Provide fresh air, consult a physician.
Ingestion:	Do NOT induce vomiting. Rinse mouth with water, seek medical advice.
Clothing:	Remove contaminated clothing and wash before re-use

Section 5: FIREFIGHTING MEASURES

Extinguishing Media	For small (incipient) fires, use Carbon Dioxide, alcohol foam, powder For larger fires apply water from as far away as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Use water spray to cool unopened containers.
Special Firefighting Protection	Wear self contained breathing apparatus for firefighting if necessary.

Hazardous Combustion products

Development of hazardous combustion gases or vapors possible in the event of fire – Carbon oxides.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and clean up

Contain spillage, and then sweep up and place in container for disposal according to local regulations.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes
Avoid inhalation of vapor or mist
Keep away from sources of ignition. No smoking.
Take measures to prevent the buildup of electrostatic charge
Normal measures for preventive fire protection.

Conditions for safe storage

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

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters				
Components	CAS-No.	Value	Control Parameters	Basis
Isoamyl Alcohol	123-51-3	TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV) Remarks – Eye and Upper Respiratory Tract Irritation
		STEL	125 ppm	USA. ACGIH Threshold Limit Values (TLV) Remarks – Eye and Upper Respiratory Tract Irritation
		TWA	100 ppm 360 mg/m ³ (value in mg/m ³ is approximate)	USA. OSHA-Table Z-1 Limits for air contaminants – 1910.100
		TWA	100 ppm 360 mg/m ³	USA. NIOSH Recommended Exposure Limits
		ST	125 ppm 450 mg/m ³	USA. NIOSH Recommended Exposure Limits

Personal Protective Equipment:

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.

Body Protection:

Protective clothing should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the

	protective clothing to chemicals should be ascertained with the respective supplier.
Respiratory Protection:	Appropriate when vapors are generated – Full Face.
Eye Protection:	Wear eye and face protection – Face Shield.
Hand Protection:	Wear chemically resistant gloves.
Industrial Hygiene:	Handle in accordance with good industrial hygiene and safety practice. Wash hands after working with product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Clear
Odor:	An alcoholic odor
Boiling Point:	130°C -lit
Flashpoint:	46°C
Melting Point:	No data available
Ignition temperature	340°C
Lower Explosion Limit	1.2 % (V)
Auto ignition Temperature	No data available
Upper Explosion Limit	9% (V)
Relative vapor density	3.04 (Air=1.0)
Vapor Pressure:	3 hPa (2mmHg) at 20°C, 23.6 hPa (17.7 mmHg) at 50°C
Specific Gravity @ 25°C	0.807-0.815
Solubility	Miscible in alcohol

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to be avoided	Heat, flames and sparks
Substances to be avoided	Strong Oxidizing agents, Acid chlorides, Acid anhydrides, Reducing agents
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. Carbon Oxides.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	
LD50, Oral - Rat	>5,000 mg/kg
LC50 Inhalation – Rat male and Female	-6h- >14 mg/l
LD50 Dermal Rabbit	>3,000 gm/kg
Skin corrosion / irritation	Rabbit-skin irritation
Serious eye damage / eye irritation	Rabbit- eye irritation - No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by ACGIH.

NTP No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity

No data available

Specific target organ toxicity – Single exposure
GHS

May cause respiratory irritation

Specific target organ toxicity – repeated
exposures - GHS

No data available

Aspiration hazard

No data available

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation
Ingestion May be harmful if swallowed
Skin May be harmful if absorbed through skin. May cause skin irritation
Eyes May cause eye irritation

Signs and Symptoms of Exposure

Prolonged or repeated exposure can cause:
Nausea, Headache, Vomiting.
To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS#:

EL5425000

Section 12: ECOLOGICAL INFORMATION

Toxicity to daphnia (Water Flea) and other
aquatic invertebrates

EC50: Water flea : 260 mg/l -48 h

Toxicity to algae

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life

Section 13: DISPOSAL CONSIDERATIONS

Product:

According to local regulations

Packaging:

According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)

UN 1105 Class 3 Packing Group III
Proper shipping name: Pentanols
Marine Pollutant: No
Poison Inhalation Hazard: No

IMDG

UN 1105 Class 3 Packing Group III EMS-No: F-E, S-D

Proper shipping name: Pentanols
Marine Pollutant: No

IATA

UN 1105 Class 3 Packing Group III
Proper shipping name: Pentanols

Section 15: REGULATORY INFORMATION

OSHA Hazards:	Combustible Liquid, Target Organ Effect, Irritant
SARA 302 Components:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311 /312 Hazards:	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
Massachusetts Right To Know Components	3-Methylbutan-1-ol CAS# 123-51-3 Rev. Date 3/1/2007
Pennsylvania Right To Know Components	3-Methylbutan-1-ol CAS# 123-51-3 Rev. Date 3/1/2007
New Jersey Right To Know Components	3-Methylbutan-1-ol CAS# 123-51-3 Rev. Date 3/1/2007
California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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