

Safety Data Sheet

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **2-Methyl Butanol, Natural**
 Product Number: **0399800**
 Recommended Use: Flavorings
 Manufacturer: Aurochemicals
 7 Nicoll Street
 Washingtonville, NY 10992 USA
 Emergency Telephone No.: 1-800-535-5053
 (International 1-352-323-3500 collect)

Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards
 GHS Classification

Combustible Liquid, Irritant
 Flammable Liquids (Category 3)
 Acute toxicity, Inhalation Category 4)
 Acute toxicity, Oral (Category 5)
 Acute toxicity, Dermal (Category 5)
 Skin irritation (Category 2)
 Serious eye damage (Category 1)
 DANGER

Signal Word:
 Pictogram or written description



Hazard Statement:

H226 Flammable liquid and vapor
 H303+ May be harmful if swallowed
 H313 May be harmful in contact with skin
 H315 Causes skin irritation
 H318 Causes serious eye damage
 H332 Harmful if inhaled

Precautionary Statement

P280 Wear protective gloves/eye protection/face protection
 P305+ IF IN EYES: Rinse cautiously with water for several minutes,
 P351+ Remove contact lenses if present and easy to do.
 P338 Continue rinsing

Other Hazards
 HMIS Classification

Repeated exposure may cause skin dryness or cracking
 Health Hazard 2
 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
Eye	Causes eye irritation
Ingestion	May be harmful if swallowed

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Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Component	2-Methylbutan-1-ol
Common Name:	2 Methyl 1 Butanol
Synonyms:	
CAS #	137-32-6
EC#	205-289-9
Formula	C ₅ H ₁₂ O
Index –No	603-006-00-7
Molecular Weight	60.1 g/mol

Section 4: FIRST AID MEASURES

General Advise:	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 for at least 15 minutes and seek medical advice.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician
Inhalation:	Provide fresh air, Consult a physician
Ingestion:	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician
Clothing contamination:	Remove contaminated clothing and wash before reuse.

Section 5: FIREFIGHTING MEASURES

Conditions of Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface- No smoking.
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Firefighting Procedures:	Do not stay in danger zone without self contained breathing apparatus Prevent fire-fighting water from entering surface or ground water Cool unopened containers with water spray from a safe distance.
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides. Use water spray to cool unopened containers.

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions	Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.
Procedures for cleaning / absorption	Take up with liquid absorbent material. Place in appropriate container and keep closed until disposal
Ventilate area	After clean up, wash spill area and ventilate the area well

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Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid inhalation of vapor or mist. Use explosion proof equipment. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
Conditions for safe storage	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

Contains no substances with occupational 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: Complete suite protecting against chemicals, made of flame retardant antistatic material 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: Where risk assessment shows air purifying respirators are appropriate, use a full face respirator with multi-combination respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator.

Eye Protection: Wear appropriate tightly fitting safety goggles. Face shield (8-inch minimum) NIOSH tested and approved.

Hand Protection: Wear chemically resistant gloves of Nitrile rubber

Industrial Hygiene: Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash before reuse. Wash hands after working with product. Application of barrier cream is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless-Clear liquid
Odor:	Alcoholic Odor
Boiling Point:	323°C
Flashpoint:	43°C
Melting Point	21°C
Ignition temperature	No data available
Lower Explosion Limit	1.2% Vol.
Upper Explosion Limit	10.3% Vol
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	0.815-0.826
Solubility	Soluble in water and most organic solvents

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Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	Heat, Flames and Sparks.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products:	Fumes formed under fire conditions – carbon oxides
Further information	No data available

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
LD50, Oral Rat	4,170 mg/kg
LC50 Inhalation	No data available
LD50 Dermal Rabbit	2,900 mg/kg
Other information on acute toxicity	No data available
Skin corrosion/irritation	Skin-Rabbit: skin irritation
Serious eye damage/eye irritation	Eye- Rabbit: Severe eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC	No component of this product, present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Potential Health effects	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation May be harmful if swallowed
Ingestion	May be harmful if absorbed through skin. Causes skin irritation
Skin	Causes eye irritation
Eyes	
Synergistic effects	No data available
RTECS:	Not available

Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available

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Other adverse effects

No data available

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	Pentanol		
	Marine pollutant	No		
	Poison Inhalation Hazard	No		
IMDG-Classification		UN 1105 Class 3	Packing Group III	EMS-No.: F-E S-D
	Proper shipping name	PENTANOLS		
	Marine pollutant	No		
IATA-Classification		UN 1274 Class 3	Packing Group II	
	Proper shipping name	Pentanol		

Section 15: REGULATORY INFORMATION

OSHA Hazards	Combustible Liquid, 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	2-Methylbutan-1-ol CAS# 137-32-6 Rev. Date: 4/24/1993
Pennsylvania Right to Know components	2-Methylbutan-1-ol CAS# 137-32-6 Rev. Date: 4/24/1993
New Jersey Right to Know components	2-Methylbutan-1-ol CAS# 137-32-6 Rev. Date: 4/24/1993
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.

Issued by:	Contact Person:
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