


HEALTH	0
FLAMMABILITY	2
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name:	Isoamyl Isobutyrate, Natural
Product Number:	0350700
Recommended Use:	Flavorings
Manufacturer:	Aurochemicals 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	Combustible Liquid
GHS Classification	Flammable Liquids (Category 3)
Signal Word:	WARNING
Pictogram or written description	
Hazard Statement:	H226 Flammable liquid and vapor.
Precautionary Statement	P210 Keep away from heat/sparks/open flames/hot surfaces-No Smoking P233 Keep container tightly closed P240 Ground/bond container and receiving equipment P241 Use explosion proof electrical/ventilating/lighting/equipment P242 Use only non sparking tools P243 Take precautionary measures against static discharge P280 Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P370+P378 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction. Store in a well ventilated place. Keep cool Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS – None

HMIS Classification	Health Hazard 0
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	Flammability	2
	Physical Hazards	0
Potential Health Effects	Inhalation	May be harmful if inhaled. May cause 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:

Component	3-Methylbutyl isobutyrate
Common Name:	3-Methylbutyl -2-Methylpropanoate
Synonyms:	Isoamyl Isobutyrate
CAS #	2050-01-3
EC#	218-078-1
Formula	C ₉ H ₁₈ O ₂
Molecular Weight	316.48 g/mol

Hazardous components

Component	Classification	Concentration
3-Methylbutyl isobutyrate	Flammable Liquid (3) H226	-

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:	Flush with water as a precaution.
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

Suitable Extinguishing Media	For small (incipient) fires, use media such as "alcohol" foam, dry chemical or carbon dioxide. For large 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.
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

Section 6: ACCIDENTAL 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.

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid inhalation of vapor or mist. 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. Store in glass, stainless steel or phenolic lined containers, preferably well filled and away from light.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Contains no substances with occupational exposure limit values.
Personal Protective Equipment:	<p>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.</p> <p>Impervious clothing of flame retardant and anti-static materials 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.</p>
Respiratory Protection:	Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Eye Protection:	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate standards such as NIOSH (US) or EN 166 (EU).
Hand Protection:	Handle with chemical resistant gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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

Form:	Liquid
Color:	Colorless
Odor:	Fruity, aromatic odor
Boiling Point:	170°C
Flashpoint:	54°C -closed cup
Melting Point/Freezing Point:	No data available
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	0.507 hPa (0.380 mmHg) at 20°C
Specific Gravity @ 25°C:	0.855-0.870
Solubility	Soluble in most organic solvents; insoluble in water

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, 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	No data available
LC50 Inhalation	No data available
LD50 Dermal Rabbit	No data available
Other information on acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
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. 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		To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
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
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 2620 Class 3 Packing Group III
Proper shipping name	Amyl Butyrates
Reportable Quantity (RQ)	
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG-Classification	UN 2620 Class 3 Packing Group III EMS-No.: F-E, S,D
Proper shipping name	AMYL BUTYRATES
Marine pollutant	No
IATA-Classification	UN 26205 Class 3 Packing Group III

Proper shipping name Amyl Butyrate

Section 15: REGULATORY INFORMATION

OSHA Hazards	Combustible Liquid
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
Massachusetts Right to Know components	No components are subject to Massachusetts Right To Know Act
Pennsylvania Right to Know components	3-Methylbutyl Isobutyrate CAS# 2050-01-3 Rev. Date:
New Jersey Right to Know components	3-Methylbutyl Isobutyrate CAS# 2050-01-3 Rev. Date:
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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