



# 501189 Isoamyl Alcohol FCC Natural (Mi)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 20-03-2025 Revision date: 09-03-2026 Version: 2.0

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Trade name : 501189 Isoamyl Alcohol FCC Natural (Mi)  
CAS-No. : MIXTURE  
Product code : 501189

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.  
Restrictions on use : For Manufacturing Use Only

#### 1.4. Supplier's details

##### Supplier

Vigon International, LLC  
127 Airport Road,  
East Stroudsburg,  
PA 18301-9629,  
USA

Telephone: +1 570-476-6300  
Fax: +1 570-476-1110  
Website: [www.vigon.com](http://www.vigon.com)  
E-mail: [regulatory@vigon.com](mailto:regulatory@vigon.com)

#### 1.5. Emergency phone number

Emergency number : CareChem 24x7 ACCT Number: AZELIS-29003 | EUROPE: +44 1235 239670 | USA: +1 202 464 2554 | CANADA - +1 800 579 7421 (Toll Free)| ASIA - +65 3158 1074 | MOROCCO - +44 1235 239671 | REST OF THE WORLD - +44 1865 407333 (English only)

### SECTION 2 Hazard identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

|                     |      |                                   |
|---------------------|------|-----------------------------------|
| Flam. Liq. 3        | H226 | Flammable liquid and vapour.      |
| Acute Tox. 4 (Oral) | H302 | Harmful if swallowed.             |
| Skin Irrit. 2       | H315 | Causes skin irritation.           |
| Eye Dam. 1          | H318 | Causes serious eye damage.        |
| STOT SE 3           | H335 | May cause respiratory irritation. |

Full text of hazard classes and H-statements : see section 16

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### 2.2. Label elements

#### GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H226 - Flammable liquid and vapour  
H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation

Precautionary statements (GHS US)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use non-sparking tools.  
P243 - Take action to prevent static discharges.  
P261 - Avoid breathing mist, vapours.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, protective clothing, eye and face protection.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - 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 or doctor.  
P330 - Rinse mouth.  
P332+P313 - If skin irritation occurs: Get medical advice or attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use appropriate media to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P235 - Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents and/or container to in accordance with local/regional/national/international regulations.

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

No additional information available

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name               | Product identifier | %         |
|--------------------|--------------------|-----------|
| Isoamyl alcohol    | CAS-No.: 123-51-3  | 65 - < 90 |
| 2-methylbutan-1-ol | CAS-No.: 137-32-6  | 15 - < 25 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First-aid measures

### 4.1. Description of necessary first-aid measures

|                                       |                                                                                                                                                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.                                                                             |
| First-aid measures after inhalation   | : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.                                        |
| First-aid measures after skin contact | : Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation develops and persists. Take off immediately all contaminated clothing.                                                                              |
| First-aid measures after eye contact  | : Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.                                                    |
| First-aid measures after ingestion    | : Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. |

### 4.2. Most important symptoms/effects, acute and delayed

|                                     |                                                                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : Headache. Dizziness. Nausea. vomiting. Diarrhea. coughing. In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.                                                                                                                                                       |
| Symptoms/effects after skin contact | : Irritation. May cause redness and pain.                                                                                                                                                 |
| Symptoms/effects after eye contact  | : Serious damage to eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.                           |
| Chronic symptoms                    | : Prolonged inhalation may be harmful.                                                                                                                                                    |

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

|                                   |                          |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |                                                                      |
|--------------------------------|----------------------------------------------------------------------|
| Suitable extinguishing media   | : Water spray, fog, CO2, dry chemical, or alcohol resistant foam.    |
| Unsuitable extinguishing media | : Do not use a solid water stream as it may scatter and spread fire. |

### 5.2. Specific hazards arising from the chemical

|                                                  |                                                                                                 |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Reactivity in case of fire                       | : Static charges generated by emptying package in or near flammable vapor may cause flash fire. |
| Hazardous decomposition products in case of fire | : Fire may produce irritating, corrosive and/or toxic gases.                                    |

### 5.3. Special protective equipment and precautions for fire-fighters

|                           |                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions | : In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control. |
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|                                |                                                                                                                                                                                                                                                                                                                                                                                       |
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| Protection during firefighting | : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires. |
| Other information              | : Use water spray to cool unopened containers.                                                                                                                                                                                                                                                                                                                                        |

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

|                      |                                                                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                                                                                                                                                                                                                         |
| Emergency procedures | : Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. |

#### For emergency responders

|                           |                                                                                                                                                                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment      | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".                                                                                    |
| Emergency procedures      | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                                                                                                                  |
| Environmental precautions | : Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. |

### 6.2. Methods and materials for containment and cleaning up

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up: | : Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. The product is immiscible with water and will spread on the water surface. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

For further information refer to section 13.

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. |
| Hygiene measures              | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                                                                                                                                                                                        |

### 7.2. Conditions for safe storage, including incompatibilities

|                        |                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage conditions     | : Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. |
| Incompatible materials | : Strong oxidizing agents.                                                                                                                              |

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Maximum storage period : 1095 days

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

| Isoamyl alcohol (123-51-3)                 |                                                                         |
|--------------------------------------------|-------------------------------------------------------------------------|
| USA - ACGIH - Occupational Exposure Limits |                                                                         |
| Local name                                 | Isoamyl alcohol                                                         |
| ACGIH® TLV® TWA                            | 361 mg/m³                                                               |
|                                            | 100 ppm                                                                 |
| ACGIH® TLV® STEL                           | 452 mg/m³                                                               |
|                                            | 125 ppm                                                                 |
| Remark (ACGIH®)                            | TLV® Basis: Eye & URT irr                                               |
| Regulatory reference                       | ACGIH 2025                                                              |
| USA - OSHA - Occupational Exposure Limits  |                                                                         |
| Local name                                 | Isomyl alcohol (primary and secondary)                                  |
| OSHA PEL TWA                               | 360 mg/m³                                                               |
|                                            | 100 ppm                                                                 |
| Regulatory reference (US-OSHA)             | OSHA Annotated Table Z-1                                                |
| USA - NIOSH - Occupational Exposure Limits |                                                                         |
| Local name                                 | Isomyl alcohol (primary and secondary)                                  |
| NIOSH REL 10h TWA                          | 100 ppm                                                                 |
| NIOSH REL STEL                             | 125 ppm                                                                 |
| Regulatory reference (US-NIOSH)            | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG)) |

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures, such as personal protective equipment

##### Personal protective equipment:

Protective clothing. Safety glasses. Wear protective gloves. Wear respiratory protection.

| Hand protection:                                                             |
|------------------------------------------------------------------------------|
| Chemical resistant gloves                                                    |
| Eye protection:                                                              |
| Safety glasses. Avoid contact with eyes                                      |
| Skin and body protection:                                                    |
| Wear suitable protective clothing. Use of an impervious apron is recommended |

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### Respiratory protection:

Chemical respirator with organic vapor cartridge and full facepiece

### Personal protective equipment symbol(s):



### Thermal hazard protection:

Wear appropriate thermal protective clothing, when necessary.

### Other information:

When using do not smoke. Keep away from food and drink. 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.

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Physical state                                  | : Liquid                        |
| Appearance                                      | : As per product specification. |
| Colour                                          | : As per product specification. |
| Odour                                           | : Characteristic                |
| Odour threshold                                 | : No data available             |
| pH                                              | : No data available             |
| Melting point                                   | : Not applicable                |
| Freezing point                                  | : No data available             |
| Boiling point                                   | : No data available             |
| Flash point                                     | : 102 °F (38.9 °C, Closed Cup)  |
| Flammability (solid, gas)                       | : Not applicable.               |
| Vapour pressure                                 | : 2 mm Hg (25 °C)               |
| Relative vapour density at 20°C                 | : No data available             |
| Relative density                                | : 0.81 (25 °C)                  |
| Molecular mass                                  | : 88.15 g/mol                   |
| Solubility                                      | : Water: Insoluble              |
| Partition coefficient n-octanol/water (Log Pow) | : No data available             |
| Auto-ignition temperature                       | : No data available             |
| Decomposition temperature                       | : No data available             |
| Viscosity, kinematic                            | : No data available             |
| Explosive limits                                | : No data available             |
| Explosive properties                            | : Not explosive.                |
| Oxidising properties                            | : Not oxidizing.                |
| Particle characteristics                        | : No data available             |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

|                  |                         |
|------------------|-------------------------|
| Other properties | : Vapour density : 3.1. |
|------------------|-------------------------|

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

#### 501189 Isoamyl Alcohol FCC Natural (Mi) (MIXTURE)

|               |                           |
|---------------|---------------------------|
| ATE US (oral) | 1444.444 mg/kg bodyweight |
|---------------|---------------------------|

#### Isoamyl alcohol (123-51-3)

|                        |                               |
|------------------------|-------------------------------|
| LD50 oral rat          | 1300 mg/kg                    |
| LD50 dermal rabbit     | 3970 mg/kg                    |
| Additional information | LD50 oral rabbit : 3400 mg/kg |

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

#### 501189 Isoamyl Alcohol FCC Natural (Mi) (MIXTURE)

|                                        |            |
|----------------------------------------|------------|
| IARC group                             | Not listed |
| National Toxicity Program (NTP) Status | Not listed |

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause respiratory irritation.

#### Isoamyl alcohol (123-51-3)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

#### 2-methylbutan-1-ol (137-32-6)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Symptoms/effects : Headache. Dizziness. Nausea. vomiting. Diarrhea. coughing. In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects.

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|                                     |                                                                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : May cause respiratory irritation.                                                                                                                             |
| Symptoms/effects after skin contact | : Irritation. May cause redness and pain.                                                                                                                       |
| Symptoms/effects after eye contact  | : Serious damage to eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |
| Chronic symptoms                    | : Prolonged inhalation may be harmful.                                                                                                                          |

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

|                                                           |                                                                                                                                                                                                      |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is 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. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                                                                                                  |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                                                                                                  |

| Isoamyl alcohol (123-51-3)         |                                                            |
|------------------------------------|------------------------------------------------------------|
| LC50 - Other aquatic organisms [1] | 490 mg/l (72 h; <i>Desmodesmus subspicatus</i> )           |
| EC50 - Crustacea [1]               | 260 mg/l (48 h, <i>Daphnia magna</i> )                     |
| 2-methylbutan-1-ol (137-32-6)      |                                                            |
| LC50 - Fish [1]                    | > 120 mg/l (96 h, <i>Danio rerio</i> )                     |
| EC50 - Other aquatic organisms [1] | > 353 mg/l (72 h, <i>Pseudokirchneriella subcapitata</i> ) |
| EC50 - Crustacea [2]               | > 173 mg/l (48 h, <i>Daphnia magna</i> )                   |

### 12.2. Persistence and degradability

| 501189 Isoamyl Alcohol FCC Natural (Mi) (MIXTURE) |                                      |
|---------------------------------------------------|--------------------------------------|
| Persistence and degradability                     | No additional information available. |

### 12.3. Bioaccumulative potential

| Isoamyl alcohol (123-51-3)                      |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Kow) | 1.16 |
| 2-methylbutan-1-ol (137-32-6)                   |      |
| Partition coefficient n-octanol/water (Log Kow) | 1.29 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

|                              |                                                                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ozone                        | : Not classified (Based on available data, the classification criteria are not met)                                                                                                       |
| Other adverse effects        | : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |
| Fluorinated greenhouse gases | : No                                                                                                                                                                                      |

## SECTION 13 Disposal considerations

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Regional waste regulation | : Disposal must be done according to official regulations. |
|---------------------------|------------------------------------------------------------|

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|                                            |                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.                                                                                                                                                                                    |
| Sewage disposal recommendations            | : Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/ water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/ regional/national/international regulations. |
| Product/Packaging disposal recommendations | : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.                                                                                                            |

## SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

### 14.1. UN Number

|               |          |
|---------------|----------|
| UN-No. (DOT)  | : UN1105 |
| UN-No. (IMDG) | : 1105   |
| UN-No. (IATA) | : 1105   |

### 14.2. UN Proper Shipping Name

|                             |             |
|-----------------------------|-------------|
| Proper Shipping Name (DOT)  | : Pentanols |
| Proper Shipping Name (IMDG) | : PENTANOLS |
| Proper Shipping Name (IATA) | : Pentanols |

### 14.3. Transport hazard class(es)

#### DOT

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (DOT) | : 3 |
| Hazard labels (DOT)              | : 3 |



#### IMDG

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 3 |
| Danger labels (IMDG)              | : 3 |



#### IATA

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 3 |
| Danger labels (IATA)              | : 3 |



### 14.4. Packing group

|                      |       |
|----------------------|-------|
| Packing group (DOT)  | : III |
| Packing group (IMDG) | : III |
| Packing group (IATA) | : III |

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### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

UN-No. (DOT) : UN1105

DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.  
B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized.  
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).  
T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / (1 + a (tr - tf))$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

#### IMDG

Special provisions (IMDG) : 223

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS

EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS

Stowage category (IMDG) : A

Properties and observations (IMDG) : Colourless liquids with a strong odour. Immiscible with water. Explosive limits: 1.2% to 10.5%.

#### IATA

Special provisions (IATA) : A3

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y344

PCA limited quantity max net quantity (IATA) : 10L

PCA packing instructions (IATA) : 355

PCA max net quantity (IATA) : 60L

CAO packing instructions (IATA) : 366

CAO max net quantity (IATA) : 220L

ERG code (IATA) : 3L

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### SECTION 15 Regulatory information

#### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

No additional information available

#### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component                    | State or local regulations                                                                                                                                                                                                                                                                                      |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Isoamyl alcohol(123-51-3)    | U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| 2-methylbutan-1-ol(137-32-6) | U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) List                                                                                                                                                                                                                       |

### SECTION 16 Other Information

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Revision date : 09-03-2026

Issue date : 20-03-2025

| Full text of hazard classes and H-statements |                                                                                            |
|----------------------------------------------|--------------------------------------------------------------------------------------------|
| Acute Tox. 4 (Oral)                          | Acute toxicity (oral), Category 4                                                          |
| Eye Dam. 1                                   | Serious eye damage/eye irritation, Category 1                                              |
| Flam. Liq. 3                                 | Flammable liquid, Category 3                                                               |
| Skin Irrit. 2                                | Skin corrosion/irritation, Category 2                                                      |
| STOT SE 3                                    | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H226                                         | Flammable liquid and vapour                                                                |
| H302                                         | Harmful if swallowed                                                                       |
| H315                                         | Causes skin irritation                                                                     |
| H318                                         | Causes serious eye damage                                                                  |
| H335                                         | May cause respiratory irritation                                                           |

# 501189 Isoamyl Alcohol FCC Natural (Mi)

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| Indication of changes: |                                   |          |
|------------------------|-----------------------------------|----------|
| Section                | Changed item                      | Comments |
| 2                      | Precautionary statements (GHS US) | Modified |
| 2                      | Hazard statements (GHS US)        | Modified |
| 2.1                    | GHS-US classification             | Modified |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.