

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Liquid Alive® Enzyme Digestant (Aerosol)

**Other means of identification**

**Part Number** 33420

**Recommended use** Enzyme Carpet Cleaner.

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** ITW Pro Brands

**Address** 805 E. Old 56 Highway  
Olathe, KS 66061

**Country** (U.S.A.)

Tel: +1 800-443-9536

**In Case of Emergency** 1-800-535-5053 (Infotrac)

## 2. Hazard(s) identification

**Physical hazards** Flammable aerosols Category 1

Gases under pressure Liquefied gas

**Health hazards** Sensitization, respiratory Category 1

Reproductive toxicity (fertility, the unborn child) Category 1B

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May damage fertility. May damage the unborn child.

**Precautionary statement**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing gas. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

**Response** If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor.

**Storage** Store locked up. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name                                | Common name and synonyms | CAS number | %       |
|--|--------------------------|------------|---------|
| Isobutane                                    |                          | 75-28-5    | 5 - 10  |
| Diethylene Glycol Monobutyl Ether            |                          | 112-34-5   | 1 - 5   |
| Glycereth-2 Cocoate                          |                          | 68201-46-7 | 1 - 5   |
| Isopropanol                                  |                          | 67-63-0    | 1 - 5   |
| Poly (Dimethylsiloxane)                      |                          | 63148-62-9 | 1 - 5   |
| Propane                                      |                          | 74-98-6    | 1 - 5   |
| Sodium C14-16 Olefin Sulfonate               |                          | 68439-57-6 | 1 - 5   |
| Solvent naphtha (petroleum), light aliphatic |                          | 64742-89-8 | 1 - 5   |
| Morpholine                                   |                          | 110-91-8   | 0.1 - 1 |
| Papain                                       |                          | 9001-73-4  | 0.1 - 1 |
| Tetrahydrofurfuryl Alcohol                   |                          | 97-99-4    | 0.1 - 1 |

#### 4. First-aid measures

##### Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

##### Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

##### Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

##### Ingestion

Not likely, due to the form of the product.

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

Difficulty in breathing.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

##### General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). 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.

#### 5. Fire-fighting measures

##### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

##### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

##### Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

##### Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

##### Fire fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

##### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

##### General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Avoid breathing gas. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                | Type | Value                  |
|---------------------------|------|------------------------|
| Isopropanol (CAS 67-63-0) | PEL  | 980 mg/m3<br>400 ppm   |
| Morpholine (CAS 110-91-8) | PEL  | 70 mg/m3<br>20 ppm     |
| Propane (CAS 74-98-6)     | PEL  | 1800 mg/m3<br>1000 ppm |

#### US. ACGIH Threshold Limit Values

| Components   | Type | Value    | Form                          |
|--|------|----------|-------------------------------|
| DIETHYLENE GLYCOL<br>MONOBUTYL ETHER<br>(CAS 112-34-5) | TWA  | 10 ppm   | Inhalable fraction and vapor. |
| Isobutane (CAS 75-28-5)                                | STEL | 1000 ppm |                               |
| Isopropanol (CAS 67-63-0)                              | STEL | 400 ppm  |                               |
|  | TWA  | 200 ppm  |                               |
| Morpholine (CAS 110-91-8)                              | TWA  | 20 ppm   |                               |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components                | Type | Value                 |
|---------------------------|------|-----------------------|
| Isobutane (CAS 75-28-5)   | TWA  | 1900 mg/m3<br>800 ppm |
| Isopropanol (CAS 67-63-0) | STEL | 1225 mg/m3            |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                | Type | Value      |
|---------------------------|------|------------|
| Morpholine (CAS 110-91-8) | TWA  | 500 ppm    |
|                           |      | 980 mg/m3  |
|                           | STEL | 400 ppm    |
|                           |      | 105 mg/m3  |
| Propane (CAS 74-98-6)     | TWA  | 30 ppm     |
|                           |      | 70 mg/m3   |
|                           | TWA  | 20 ppm     |
|                           |      | 1800 mg/m3 |
|                           |      | 1000 ppm   |

**US. Workplace Environmental Exposure Level (WEEL) Guides**

| Components                               | Type | Value   |
|--|------|---------|
| TETRAHYDROFURFURYL ALCOHOL (CAS 97-99-4) | TWA  | 2 mg/m3 |
|  |      | 0.5 ppm |

**Biological limit values****ACGIH Biological Exposure Indices**

| Components                | Value   | Determinant | Specimen | Sampling Time |
|---------------------------|---------|-------------|----------|---------------|
| Isopropanol (CAS 67-63-0) | 40 mg/l | Acetone     | Urine    | *             |

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

Morpholine (CAS 110-91-8) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

Morpholine (CAS 110-91-8) Skin designation applies.

**US - Tennessee OELs: Skin designation**

Morpholine (CAS 110-91-8) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Morpholine (CAS 110-91-8) Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

Morpholine (CAS 110-91-8) Can be absorbed through the skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Morpholine (CAS 110-91-8) Can be absorbed through the skin.

**Appropriate engineering controls**

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. General ventilation normally adequate.

**Individual protection measures, such as personal protective equipment**

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

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves.

**Other**

Wear suitable protective clothing. Use of an impervious apron is recommended.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Observe any medical surveillance requirements. When using do not smoke. 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.

**9. Physical and chemical properties****Appearance**

**Physical state** Gas.

**Form** Aerosol.

|   |   |
|---|---|
| <b>Color</b>  | White.  |
| <b>Odor</b>   | Pleasant.   |
| <b>Odor threshold</b>                               | Not available.  |
| <b>pH</b>   | 8.8   |
| <b>Melting point/freezing point</b>                 | Not available.  |
| <b>Initial boiling point and boiling range</b>      | 203 °F (95 °C)  |
| <b>Flash point</b>                                  | 78.8 °F (26.0 °C)   |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Flammable gas.  |
| <b>Upper/lower flammability or explosive limits</b> |   |
| <b>Flammability limit - lower (%)</b>               | Not available.  |
| <b>Flammability limit - upper (%)</b>               | Not available.  |
| <b>Explosive limit - lower (%)</b>                  | Not available.  |
| <b>Explosive limit - upper (%)</b>                  | Not available.  |
| <b>Vapor pressure</b>                               | Not available.  |
| <b>Vapor density</b>                                | > 1 (air = 1)   |
| <b>Relative density</b>                             | Not available.  |
| <b>Solubility(ies)</b>                              |   |
| <b>Solubility (water)</b>                           | Fully miscible.   |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.  |
| <b>Auto-ignition temperature</b>                    | Not available.  |
| <b>Decomposition temperature</b>                    | Not available.  |
| <b>Viscosity</b>                                    | Not available.  |
| <b>Other information</b>                            |   |
| <b>Density</b>                                      | 0.99 g/cm <sup>3</sup> @ 20° C                                |
| <b>Explosive properties</b>                         | Not explosive.  |
| <b>Oxidizing properties</b>                         | Not oxidizing.  |
| <b>VOC</b>  | 14.86 % per US State and Federal Consumer Product Regulations |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.      |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Chlorine. Fluorine. Nitrates.  |
| <b>Hazardous decomposition products</b>   | Carbon oxides.  |

## 11. Toxicological information

### Information on likely routes of exposure

|   |   |
|---|---|
| <b>Inhalation</b>   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful. |
| <b>Skin contact</b>   | No adverse effects due to skin contact are expected.  |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.  |
| <b>Ingestion</b>  | Expected to be a low ingestion hazard.  |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Difficulty in breathing.  |

**Information on toxicological effects****Acute toxicity** Not expected to be acutely toxic.

| <b>Components</b>   | <b>Species</b>   | <b>Test Results</b>    |
|---|--|------------------------|
| Diethylene Glycol Monobutyl Ether (CAS 112-34-5)                      |  |                        |
| <b><u>Acute</u></b>   |  |                        |
| <b>Dermal</b>   |  |                        |
| LD50  | Rabbit   | 2700 mg/kg             |
| <b>Oral</b>   |  |                        |
| LD50  | Rat  | 3306 mg/kg             |
| Isopropanol (CAS 67-63-0)   |  |                        |
| <b><u>Acute</u></b>   |  |                        |
| <b>Oral</b>   |  |                        |
| LD50  | Rat  | 4.7 g/kg               |
| Morpholine (CAS 110-91-8)   |  |                        |
| <b><u>Acute</u></b>   |  |                        |
| <b>Dermal</b>   |  |                        |
| LD50  | Rabbit   | 500 mg/kg, 24 Hours    |
| <b>Oral</b>   |  |                        |
| LD50  | Rat  | 1050 mg/kg             |
| Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)         |  |                        |
| <b><u>Acute</u></b>   |  |                        |
| <b>Dermal</b>   |  |                        |
| LD50  | Rabbit   | > 1900 mg/kg, 24 Hours |
| <b>Inhalation</b>   |  |                        |
| <i>Vapor</i>  |  |                        |
| LC50  | Rat  | > 4.96 mg/l, 4 Hours   |
| <b>Oral</b>   |  |                        |
| LD50  | Rat  | 4820 mg/kg             |
| Tetrahydrofurfuryl Alcohol (CAS 97-99-4)                              |  |                        |
| <b><u>Acute</u></b>   |  |                        |
| <b>Oral</b>   |  |                        |
| LD50  | Rat  | 1.6 g/kg               |
| <b>Skin corrosion/irritation</b>                                      | Prolonged skin contact may cause temporary irritation.   |                        |
| <b>Serious eye damage/eye irritation</b>                              | Direct contact with eyes may cause temporary irritation.   |                        |
| <b>Respiratory or skin sensitization</b>                              |  |                        |
| <b>Respiratory sensitization</b>                                      | May cause allergy or asthma symptoms or breathing difficulties if inhaled.                                       |                        |
| <b>Skin sensitization</b>   | This product is not expected to cause skin sensitization.  |                        |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |                        |
| <b>Carcinogenicity</b>  |  |                        |
| Not classifiable as to carcinogenicity to humans.                     |  |                        |
| <b>ACGIH Carcinogens</b>  |  |                        |
| Isopropanol (CAS 67-63-0)   | A4 Not classifiable as a human carcinogen.   |                        |
| Morpholine (CAS 110-91-8)   | A4 Not classifiable as a human carcinogen.   |                        |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         |  |                        |
| Morpholine (CAS 110-91-8)   | 3 Not classifiable as to carcinogenicity to humans.  |                        |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b> |  |                        |
| Not regulated.  |  |                        |
| <b>US. National Toxicology Program (NTP) Report on Carcinogens</b>    |  |                        |
| Not listed.   |  |                        |
| <b>Reproductive toxicity</b>  | May damage fertility. May damage the unborn child.   |                        |

|   |   |
|---|---|
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.                             |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.                             |
| <b>Aspiration hazard</b>                                  | Not likely, due to the form of the product. |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful.        |

## 12. Ecological information

**Ecotoxicity** 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.

| Components                                       | Species | Test Results                                   |
|--|---------|--|
| Diethylene Glycol Monobutyl Ether (CAS 112-34-5) |         |  |
| <b>Aquatic</b>                                   |         |  |
| Fish   | LC50    | Bluegill ( <i>Lepomis macrochirus</i> )        |
|  |         | 1300 mg/l, 96 hours                            |
| Isopropanol (CAS 67-63-0)                        |         |  |
| <b>Aquatic</b>                                   |         |  |
| Fish   | LC50    | Bluegill ( <i>Lepomis macrochirus</i> )        |
|  |         | > 1400 mg/l, 96 hours                          |
| Morpholine (CAS 110-91-8)                        |         |  |
| <b>Aquatic</b>                                   |         |  |
| Fish   | LC50    | Zebra danio ( <i>Danio rerio</i> )             |
|  |         | > 1 mg/l, 96 hours                             |
| Poly (Dimethylsiloxane) (CAS 63148-62-9)         |         |  |
| <b>Aquatic</b>                                   |         |  |
| Fish   | LC50    | Channel catfish ( <i>Ictalurus punctatus</i> ) |
|  |         | 2.36 - 4.15 mg/l, 96 hours                     |
| Sodium C14-16 Olefin Sulfonate (CAS 68439-57-6)  |         |  |
| <b>Aquatic</b>                                   |         |  |
| Crustacea  | EC50    | Water flea ( <i>Ceriodaphnia dubia</i> )       |
|  |         | 4.14 - 4.95 mg/l, 48 hours                     |

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### Bioaccumulative potential

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

|                                   |       |
|-----------------------------------|-------|
| Diethylene Glycol Monobutyl Ether | 0.56  |
| Isobutane                         | 2.76  |
| Isopropanol                       | 0.05  |
| Morpholine                        | -0.86 |
| Propane                           | 2.36  |

**Mobility in soil** No data available.

**Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

D001: Waste Flammable material with a flash point <140 F  
D003: Waste Reactive material

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** 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. Do not re-use empty containers.

## 14. Transport information

### DOT

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1950  |
| <b>UN proper shipping name</b>      | Aerosols, flammable, (each not exceeding 1 L capacity)                  |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2.1   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 2.1   |
| <b>Packing group</b>                | Not available.  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | N82   |
| <b>Packaging exceptions</b>         | 306   |
| <b>Packaging non bulk</b>           | None  |
| <b>Packaging bulk</b>               | None  |

### IATA

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1950  |
| <b>UN proper shipping name</b>      | Aerosols, flammable   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2.1   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | Not available.  |
| <b>Environmental hazards</b>        | No.   |
| <b>ERG Code</b>                     | 10L   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>            |   |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.  |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.  |

### IMDG

|   |   |
|---|---|
| <b>UN number</b>  | UN1950  |
| <b>UN proper shipping name</b>  | Aerosols, flammable   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>  | 2.1   |
| <b>Subsidiary risk</b>  | -   |
| <b>Packing group</b>  | Not available.  |
| <b>Environmental hazards</b>  |   |
| <b>Marine pollutant</b>   | No.   |
| <b>EmS</b>  | F-D, S-U  |
| <b>Special precautions for user</b>   | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.   |

### DOT





**General information**

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

**15. Regulatory information****US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**Classified hazard categories**

Flammable (gases, aerosols, liquids, or solids)  
Gas under pressure  
Respiratory or skin sensitization  
Reproductive toxicity

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Isobutane (CAS 75-28-5)

Propane (CAS 74-98-6)

**Safe Drinking Water Act (SDWA)**

Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Isopropanol (CAS 67-63-0)

Low priority

**US state regulations****US. New Jersey Worker and Community Right-to-Know Act**

Isobutane (CAS 75-28-5)

Isopropanol (CAS 67-63-0)

Morpholine (CAS 110-91-8)

Propane (CAS 74-98-6)

**California Proposition 65**

**WARNING:** California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Isobutane (CAS 75-28-5)  
Isopropanol (CAS 67-63-0)  
Papain (CAS 9001-73-4)  
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)  
Tetrahydrofurfuryl Alcohol (CAS 97-99-4)

**International Inventories**

| <b>Country(s) or region</b> | <b>Inventory name</b>  | <b>On inventory (yes/no)*</b> |
|-----------------------------|--|-------------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                           |
| Canada                      | Domestic Substances List (DSL)   | Yes                           |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                            |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                           |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                            |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                            |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                            |
| Korea                       | Existing Chemicals List (ECL)  | Yes                           |
| New Zealand                 | New Zealand Inventory  | Yes                           |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                           |
| Taiwan                      | Taiwan Toxic Chemical Substances (TCS)                                 | Yes                           |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                           |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

**Issue date** 04-09-2018

**Version #** 01

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