# PROBRANDS

## 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)

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

Category 1B

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, oven after use. Avaid breathing gas. Weer protective glaves/protective glaves/p

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**

Material name: Liquid Alive® Enzyme Digestant (Aerosol)

33420 Version #: 01 Issue date: 04-09-2018

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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** Difficulty in breathing.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

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

medical attention and specia treatment needed

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 (CO2).

Unsuitable extinguishing 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

media

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	Туре	Value	
Isopropanol (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
Morpholine (CAS 110-91-8)	PEL	70 mg/m3	
. ,		20 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
,		1000 ppm	
<b>US. ACGIH Threshold Limit Value</b>	s		
Components	Туре	Value	Form
DIETHYLENE GLYCOL	TWA	10 ppm	Inhalable fraction and
MONOBUTYL ETHER			vapor.
(CAS 112-34-5)			
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 Cher	nical Hazards		
Components	Туре	Value	
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3	
		800 ppm	
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3	
,		•	

<b>US. NIOSH: Pocket Guide to Chemica</b>	al Hazards
O	<b>T</b>

Components	Туре	Value	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
Morpholine (CAS 110-91-8)	STEL	105 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
US. Workplace Environmental Exp	oosure Level (WEEL) Guides		
Components	Туре	Value	
TETRAHYDROFURFURYL ALCOHOL (CAS 97-99-4)	TWA	2 mg/m3	

## **Biological limit values**

**ACGIH Biological Exposure Indices** 

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

<sup>\* -</sup> 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.

0.5 ppm

#### 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.

contaminants.

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

## 9. Physical and chemical properties

**Appearance** 

Physical state Gas.
Form Aerosol.

Color White. Pleasant. Odor **Odor threshold** Not available.

8.8 pН

Not available. Melting point/freezing point Initial boiling point and boiling 203 °F (95 °C)

range

78.8 °F (26.0 °C) Flash point **Evaporation rate** Not available. Flammability (solid, gas) Flammable gas.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Not available. Vapor pressure > 1 (air = 1)Vapor density

Relative density

Not available.

Solubility(ies)

Solubility (water) Fully miscible. **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

0.99 g/cm3 @ 20° C Density Not explosive. **Explosive properties** Oxidizing properties Not oxidizing.

VOC 14.86 % per US State and Federal Consumer Product Regulations

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Conditions to avoid

Strong oxidizing agents. Chlorine. Fluorine. Nitrates. Incompatible materials

Hazardous decomposition

products

Carbon oxides.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation

may be harmful.

No adverse effects due to skin contact are expected. Skin contact **Eve contact** Direct contact with eyes may cause temporary irritation.

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Difficulty in breathing.

Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Components Species Test Results

Diethylene Glycol Monobutyl Ether (CAS 112-34-5)

Acute Dermal

LD50 Rabbit 2700 mg/kg

Oral

LD50 Rat 3306 mg/kg

Isopropanol (CAS 67-63-0)

Acute Oral

LD50 Rat 4.7 g/kg

Morpholine (CAS 110-91-8)

Acute Dermal

LD50 Rabbit 500 mg/kg, 24 Hours

Oral

LD50 Rat 1050 mg/kg

Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)

<u>Acute</u>

Dermal

LD50 Rabbit > 1900 mg/kg, 24 Hours

Inhalation

Vapor

LC50 Rat > 4.96 mg/l, 4 Hours

Oral

LD50 Rat 4820 mg/kg

Tetrahydrofurfuryl Alcohol (CAS 97-99-4)

<u>Acute</u>

Oral

LD50 Rat 1.6 g/kg

**Skin corrosion/irritation**Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye**Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**ACGIH Carcinogens** 

Isopropanol (CAS 67-63-0)

Morpholine (CAS 110-91-8)

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Morpholine (CAS 110-91-8) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

**Reproductive toxicity** May damage fertility. May damage the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not likely, due to the form of the product. **Aspiration hazard** Prolonged inhalation may be harmful. **Chronic effects** 

## 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 Mo	onobutyl Ether (CAS	112-34-5)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours
Isopropanol (CAS 67	7-63-0)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Morpholine (CAS 110	0-91-8)		
Aquatic			
Fish	LC50	Zebra danio (Danio rerio)	> 1 mg/l, 96 hours
Poly (Dimethylsiloxai	ne) (CAS 63148-62-9	9)	
Aquatic			
Fish	LC50	Channel catfish (Ictalurus punctatus)	2.36 - 4.15 mg/l, 96 hours
Sodium C14-16 Olef	in Sulfonate (CAS 68	3439-57-6)	

Aquatic

Crustacea

EC50

Water flea (Ceriodaphnia dubia) 4.14 - 4.95 mg/l, 48 hours

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

Bioaccumulative potential

Persistence and degradability

Partition coefficient n-octanol / water (log Kow)

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

No data available. Mobility in soil

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

potential.

## 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents **Disposal instructions** 

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.

Material name: Liquid Alive® Enzyme Digestant (Aerosol) 33420 Version #: 01 Issue date: 04-09-2018

## 14. Transport information

#### DOT

UN number UN1950

UN proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisionsN82Packaging exceptions306Packaging non bulkNonePackaging bulkNone

**IATA** 

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not available.

**Environmental hazards** No. **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Not applicable.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN number UN1950

**UN proper shipping name** Aerosols, flammable

Transport hazard class(es)
Class

Class 2.1 Subsidiary risk -

Packing group Not available.

**Environmental hazards** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



## IATA; IMDG



#### 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

Not regulated.

(SDWA)

#### 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.

# 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**

Country(s) or region	Inventory name	On inventory (yes/no)*
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

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

Toxic Substances Control Act (TSCA) Inventory

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

**Issue date** 04-09-2018

Version # 01

United States & Puerto Rico

**Disclaimer** ITW Pro Brands cannot anticipate all conditions under which this information and its product, or

the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

Material name: Liquid Alive® Enzyme Digestant (Aerosol) 33420 Version #: 01 Issue date: 04-09-2018

Yes

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).