# **SAFETY DATA SHEET**

# 1. Identification

Product number HT 18019

Product identifier DR. FOAMY ENZYME CLEANER

Revision date 07-21-2015

Company information HI-TECH INDUSTRIES

33106 W. 8 Mile Rd

Farmington, MI 48336 United States

Company phone General Assistance 248-358-5533

**Emergency telephone US** 1-800-535-5053 **Emergency telephone outside** 1-352-323-3500

Line delicy telephone outsid

US

Version # 05

Supersedes date 07-21-2015

Recommended use Cleaner

Recommended restrictions None known.

# 2. Hazard(s) identification

Physical hazards Gases under pressure Liquefied gas

Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Contains gas under pressure; may explode if heated.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Protect from sunlight. Store in a well-ventilated place.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

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	2.5 - 10
Propane		74-98-6	0.1 - 1
Other components below reportable levels			90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

InhalationSkin contactIf symptoms develop move victim to fresh air. Get medical attention if symptoms persist.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 Rinse mouth. Get medical attention if symptoms occur.

Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

Not available.

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire-fighting equipment/instructions Contents under pressure.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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.

Cool containers exposed to flames with water until well after the fire is out. Specific methods

### 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. Wear appropriate protective equipment and clothing during clean-up. 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. Prevent entry into waterways, sewer, basements or confined areas. 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

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. Ground and bond containers when transferring material. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupational exposure limits

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Components	Туре	Value	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3	

Value Components Type

800 ppm

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

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.

Individual protection measures, such as personal protective equipment

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

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear suitable protective clothing.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

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

Aerosol. Liquefied gas. **Form** 

Color Not available. Not available. Odor **Odor threshold** Not available. Not available. Not available. Melting point/freezing point

Initial boiling point and boiling

range

212 °F (100 °C) estimated

-99.4 °F (-73.0 °C) Propellant estimated Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

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

Other information

Flammability class Flammable IB estimated

2.47 kJ/g estimated Heat of combustion (NFPA

30B)

Specific gravity 0.919 estimated

10. Stability and reactivity

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

Material is stable under normal conditions. Chemical stability Possibility of hazardous Hazardous polymerization does not occur.

reactions

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

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

Expected to be a low ingestion hazard. Ingestion

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

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

## Information on toxicological effects

**Acute toxicity** 

Components	Species	Test Results
Isobutane (CAS 75-28-5)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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

irritation

Respiratory or skin sensitization

Not available. Respiratory sensitization

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

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

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not likely, due to the form of the product.

Product name: DR. FOAMY ENZYME CLEANER

# 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.

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

Isobutane 2.76

Mobility in soil No data available

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.

### 13. Disposal considerations

Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. **Disposal instructions** 

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

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

### 14. Transport information

#### DOT

**UN** number UN1950

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

Transport hazard class(es)

2.2 Class Subsidiary risk 2.2 Label(s)

Packing group Not applicable.

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

306 Packaging exceptions Packaging non bulk None Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

#### IATA

UN1950 **UN** number

Aerosols, non-flammable **UN proper shipping name** 

Transport hazard class(es)

Class 2.2 Subsidiary risk 2.2 Label(s)

Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 2L

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

Other information

Allowed. Passenger and cargo

aircraft

Cargo aircraft only Allowed. **Packaging Exceptions** LTD QTY

IMDG

UN1950 **UN number** UN proper shipping name **AEROSOLS**  Transport hazard class(es)

2.2 Class Subsidiary risk Label(s) 2.2

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No.

Not available. **EmS** 

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

**Packaging Exceptions** LTD QTY Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

#### DOT



IATA; IMDG



# 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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 1910.1001-1050)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **Hazard categories** 

Delayed Hazard - No Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

Product name: DR. FOAMY ENZYME CLEANER

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
1 4-Dioxane	123-91-1	0.01 - 0.1	

#### 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)

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Isobutane (CAS 75-28-5)

## US. New Jersey Worker and Community Right-to-Know Act

Isobutane (CAS 75-28-5)

## US. Pennsylvania Worker and Community Right-to-Know Law

Isobutane (CAS 75-28-5)

#### **US. Rhode Island RTK**

Isobutane (CAS 75-28-5)

### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dioxane (CAS 123-91-1) Listed: January 1, 1988

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>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 06-30-2015 07-21-2015 **Revision date** 

Version # 05

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Transport Information: Material Transportation Information **Revision Information** 

GHS: Classification