40420

C18904 V# 007155

# SAFETY DATA SHEET

Effective Date 14-Jun-2016

Version 2

## IDENTIFICATION

Product Identifier

**Product Name** 

HOOF-IT BOVINE LIQUID MMA ACRYLIC

Other means of identification

UN/ID No

UN1993

**Product Code** 

11004

Recommended use of the chemical and restrictions on use

Recommended Use

Veterinary acrylic resin

Details of the supplier of the safety data sheet

Supplier Address

Animart

1240 Green Valley Rd. Beaver Dam, WI 53916

Emergency telephone number

**Company Phone Number** 

920-885-2800

Emergency Telephone (CHEMTREC)

800-424-9300

# 2. HAZARDS IDENTIFICATION

#### Classification

Flammable liquids	Category 2
Skin Corrosion / Irritation	Category 2
Skin Sensitization	Category 1
Specific Target Organ Toxicity - Single Exposure (Respiratory)	Category 3

Signal word

Danger

Hazard statements H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.



Appearance

Physical state

Odor Acrid

Precautionary Statements - Prevention

P210 Keep away from heat/sparks/open flames/ hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary Statements - Response

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before use.

P370+P378 In case of fire: Use CO2, for extinction.

#### Precautionary Statements - Storage

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

#### Precautionary Statements - Disposal

P501 Dispose of contents/container to an approved waste disposal facility.

Hazardous component(s)

Contains methyl methacrylate

for labeling

Hazards not otherwise classified (HNOC) May be harmful if swallowed.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Methyl Methacrylate	80-62-6	<90	•
-Hydroxyethyl Methacrylate	868-77-9	<30	*

<sup>\*</sup>Specific chemical weight has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

# First aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison

control center immediately.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing

for at least 15 minutes. Call a physician immediately.

Ingestion Do NOT induce vomiting. Drink plenty of water or milk immediately. Never give anything by mouth to an

unconscious person. Provide an estimate of the time at which the material was ingested and the amount of

the substance that was swallowed. Call a physician or poison control center immediately.

Skin Contact Wash off immediately with plenty of soap and water. Take off contaminated clothing. Wash contaminated

clothing before reuse. If skin irritation or rash occurs, get medical advice/attention.

# Most important symptoms and effects, both acute and delayed

Symptoms May cause skin and eye irritation. May cause irritation to the mucous membranes and upper respiratory tract.

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Can cause behavioral changes, muscle weakness, and coma.

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

Note to physicians

Treat symptoms conventionally, after thorough decontamination.

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable: Chemical foam, carbon dioxide (CO2), dry chemical

Unsuitable: Water spray

#### Specific hazards arising from the chemical

For bulk size >1L – High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Extremely flammable. Vapors are heavier than air and may spread along the floors. Vapors may travel to source of ignition and flash back. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk or burns/injuries.

**Hazardous Combustion Products:** 

Carbon oxides

Sensitivity to Mechanical Impact:

No

Sensitivity to Static Discharge:

Yes

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Fight fire from a safe location.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protective equipment as required. Ensure adequate ventilation. Remove any contaminated clothing and wash thoroughly before reuse.

**Environmental precautions** 

Prevent product from entering drains. Spillages or uncontrolled discharges into watercourses must

be alerted to the appropriate regulatory body.

Methods and material for containment and clean-up

Method for containment

Absorb with earth, sand or other non-combustible material and transfer to containers for later

disposal. DO NOT use combustible materials such as sawdust.

Method for clean-up

Use only non-sparking tools. Wash all affected areas with plenty of warm water and soap.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling

Observe precautions found on the label. Keep containers closed when not in use. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Take precautionary measures against static discharges. Keep away from heat, sparks, open flames, and hot surfaces. NO SMOKING. Use personal protection recommended in Section 8. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust, fume, gas, mist, vapor or spray.

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#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,

sparks, flame and other sources of ignition (i.e. pilot lights, electric motors and static electricity).

Protect from direct sunlight. Keep container closed to prevent water absorption and contamination.

Methacrylate stored in bulk must be kept in contact with air (oxygen). Keep at a temperature not

exceeding 25°C.

Packaging materials

Keep in original container.

Incompatible materials

Strong oxidizing agents, strong reducing agents, free-radical generators, inert gases, oxygen

scavengers.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure guidelines** 

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. The following information is given as general guidance.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl Methacrylate	STEL: 100 ppm	TWA:100 ppm	TWA: 100 ppm
80-62-6	TWA: 50 ppm	TWA: 410 mg/m <sup>3</sup>	TWA: 410 mg/m <sup>3</sup>
		TWA:100 ppm (vacated)	
		TWA: 410 mg/m <sup>3</sup> (vacated)	

#### Appropriate engineering controls

**Engineering controls** 

Apply technical measures to comply with the occupational exposure limits.

Eyewash stations

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

Eye / face protection

Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to US OSHA 29CFR SS1910.133, Canadian standards or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

Skin and body protection

Respiratory protection

If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to US OSHA 29CFR SS1910.138 or the appropriate standards of Canada or the EC member states. Wear suitable protective clothing. Wear suitable respiratory equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. In the event of formation of particularly high levels of vapor, a self-contained breathing apparatus may be appropriate.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Liquid

Odor Odor threshold Acrid

Not determined

Color

Liquid Clear

<u>Values</u>

Remarks / Method

Property

Melting point / freezing point

Not determined Not determined

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101°C / 214° F

11.5°C / 52.7°F

3.1 n/a (liquid)

Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability limits in air

12.5%

Upper flammability limit Lower flammability limit

2.12%

Butyl acetate = 1

Vapor pressure

28mm Hg

@ 20°C @15.5°C (Air = 1)

Vapor density Specific gravity Water solubility
Solubility in other solvents 3.5 0.967 1.6 wt%

Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity **Explosive properties** 

Not determined Not determined 421°C / 790°F Not determined Not determined Like water Not determined Not determined

Oxidizing properties Other information

Density

0.967 g/mL

# 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical stability Unstable / reactive upon depletion of inhibitor

## Possibility of hazardous reactions

None under normal processing

Hazardous polymerization Hazardous polymerization may occur. Monomer vapors are inhibited and may form polymers in vent or flame arresters, resulting in blockage of vents.

#### Conditions to avoid

Temperatures above 25°C (77°F), localized heat sources (e.g. drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing

#### Incompatible materials

Strong oxidizing agents, strong reducing agents, free-radical generators, inert gases, oxygen scavengers

Material has strong solvent properties and can soften paint and rubber.

Hazardous decomposition products

Carbon oxides

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposures

Product information

Inhalation

Harmful if inhaled.

Eye contact

Causes severe eye irritation.

Skin contact

Causes skin imitation. May be harmful in contact with skin.

Ingestion

May be harmful if swallowed.

## Component information on toxicological effects:

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION TCLo
Methyl Methacrylate 80-62-6	> 7900 mg/kg (rat)	>35,500 mg/kg (rabbit)	7094 ppm (rat) 4 h
2-Hydroxyethyl Methacrylate 868-77-9	5564 mg/kg (rat)	>3000 mg/kg (rabbit)	•

# Information on physical, chemical and toxicological effects

Symptoms

Contact may cause skin and eye irritation. May cause irritation to the mucous membranes and upper

respiratory tract.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

May cause allergic skin reaction.

Carcinogenicity

Not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical Name	Algae / aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methyl Methacrylate 80-62-6	170: 96 h Psuedokirchneriella subcapitata mg/L EC50	130 mg/L: 96 h Pimephales promelas mg/L LC50 static;		69: 48 h Daphnia magna mg/L EC50
2-Hydroxyethyl Methacrylate 868-77-9		227:96 h Pimphales promelas mg/L LC50 flow-through	-	1

Persistence and degradability Methyl methacrylate: Not readily biodegradable

Bioaccumulation

Methyl methacrylate: Chemical Oxygen Demand: 88% within 28 days

Dissolved Organic Carbon Removal: >95% within 28 days.

Mobility

Methyl methacrylate: High mobility in soil.

Other adverse effects

No available data.

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes

Follow all local and national government regulations in disposing material or contaminated packaging. For U.S. - Dispose of in accordance with federal, state and local regulations. When discarded, it is considered a hazardous waste by the EPA under RCRA. The reportable quantity for methyl methacrylate is 1000 lb. (40 CFR Part 302). Add excess inhibitor before disposing.

**Contaminated Packaging** 

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers.

Dispose of all empty containers in accordance with local and national government regulations.

## 14. TRANSPORTATION INFORMATION

#### DOT

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized / 2-Hydroxyethyl methacrylate solution)
Hazard Class	3
Packing Group	
Reportable Quantity (RQ)	1000 lb. (methyl methacrylate)

#### IATA

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized /

	2-Hydroxyethyl methacrylate solution)	
Hazard Class	3	
Packing Group		

#### IMDG

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized / 2-Hydroxyethyl methacrylate solution)
Hazard Class	3
Packing Group	

# 15. REGULATORY INFORMATION

# For Methyl methacrylate:

## International Inventories TSCA

Listed

United States Toxic Substances Control Act, Section 8(b) Inventory

DSL

Listed

Canadian Domestic Substances List

EINECS

Listed

European Inventory of Existing Chemical Substances

# SARA 311 / 312 Hazard Categories

Acute health hazard Yes Chronic Health Hazard Yes Fire Hazard Yes Sudden release of pressure hazard No Reactive Hazard

# **SARA 313**

This product does not contain any chemicals knows to State of California to cause cancer, birth defects, or any other reproductive harm.

US Federal Regulations No data available

US State Regulations Not established

California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

US State Right-to-Know Regulations

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability
	2	3	2
HMIS	Health Hazards	Flammability	Physical Hazards
	2	3	2

Pennsylvania

**Effective Date** 

14-Jun-2016

**Revision Note** 

Update sections

Information to be updated in due course Hazard pictograms listed in this SDS to be added to product label.

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 guidance for safe handling, use, processing, storage, transportation, disposal and release. It 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.

End of Safety Data Sheet

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