# SAFETY DATA SHEET



Issue Date 13-Aug-2015 Revision Date 01-Jan-2018 Version 1

## 1. IDENTIFICATION

Product identifier

Product Name PUMADEQ FLEX 31MV - WHITE

Other means of identification

 Product Code
 HEPU867

 UN/ID no
 UN1866

 Synonyms
 None

Recommended use of the chemical and restrictions on use
Recommended Use Industrial Coatings

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address HENRY COMPANY

999 N. Sepulveda Blvd., Suite 800 El Segundo, CA 90245-2716

Web Site: www.henry.com www.ca.henry.com

Emergency telephone number

Company Phone Number 800-486-1278

Emergency Telephone US and Canada only (toll-free) : 3E Company - 1-866-519-4752 (access code 334832)

US/Canada, all other countries: 3E Company - +1-760-476-3962 (access code 334832) Mexico (additional contact option): 3E Company - +52 55 41696225 (Code 334832)

## 2. HAZARDS IDENTIFICATION

## Classification

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

#### Label elements

## **Emergency Overview**

#### **Danger**

## **Hazard statements**

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation

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Highly flammable liquid and vapor



Appearance viscous Physical state liquid Odor Strong Aromatic

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating / lighting/ / equipment Use only non-sparking tools
Take precautionary measures against static discharge Keep cool

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

If skin irritation or rash occurs: Get medical advice/attention

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

Wash contaminated clothing before reuse

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

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

In case of fire: Use CO2, dry chemical, or foam for extinction

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

May be harmful if inhaled. Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

#### **Unknown acute toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

## Mixture

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Chemical Name	CAS No	Weight-%
Resin-polymer Blend *	Proprietary	40 - 70
Methyl methacrylate *	80-62-6	10 - 30
2-Ethylhexyl acrylate *	103-11-7	10 - 30
Titanium dioxide *	13463-67-7	1 - 5
Silica, amorphous, fumed, crystalline-free *	112945-52-5	1 - 5

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of first aid measures

General advice Immediate medical attention is required. In case of accident or unwellness, seek medical

advice immediately (show directions for use or safety data sheet if possible). If symptoms

persist, call a physician.

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

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water. Wash contaminated clothing before

reuse. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician. Artificial respiration and/or

oxygen may be necessary.

**Ingestion** Call a physician or poison control center immediately. Do not induce vomiting without

medical advice. Rinse mouth. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. May cause skin irritation. Redness. Coughing

and/ or wheezing.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

## Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Flammable.

#### **Explosion data**

Sensitivity to Mechanical Impact None.

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.

## 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. Cool containers / tanks with water spray. Burning produces heavy smoke.

## 6. ACCIDENTAL RELEASE MEASURES

Revision Date 01-Jan-2018

## Personal precautions, protective equipment and emergency procedures

**Personal precautions** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate

ventilation, especially in confined areas. Use personal protective equipment as required.

Keep people away from and upwind of spill/leak.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust). Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks,

flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use personal protective equipment as required. Avoid breathing vapors or mists.

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

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

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

electricity). Keep in properly labeled containers.

**Incompatible materials** Strong oxidizing agents. Strong acids. Strong bases. Amines. Halogens.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

**Exposure Guidelines** 

	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ī	Methyl methacrylate	STEL: 100 ppm	TWA: 100 ppm	IDLH: 1000 ppm
-	80-62-6	TWA: 50 ppm	TWA: 410 mg/m <sup>3</sup>	TWA: 100 ppm
-				TWA: 410 mg/m <sup>3</sup>
Ī	Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>

NIOSH IDLH Immediately Dangerous to Life or Health

## **Appropriate engineering controls**

Engineering Controls Minimize exposure by partial enclosure of the operation or equipment and provide extract

ventilation at openings.

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

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

**Skin and body protection** Wear protective gloves and protective clothing.

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** 

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Remarks • Method

Tag Closed Cup

@ 20 °C

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid
Appearance viscous
Color white

viscous Odor Strong Aromatic white Odor threshold 0.34 ppm

<u>Property</u> <u>Values</u>

**pH** No information available

Melting point / freezing point

-18 °C / 0 °F

Boiling point / boiling range

101 °C / 213 °F

Flash point 12 °C / 53 °F
Evaporation rate 3.1 (nBuOAc = 1)
Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: 12.5% Lower flammability limit: 2.1% Vapor pressure 4.7

Vapor density No information available

Relative density 1.36

Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Insoluble in water
No information available
No information available

**Decomposition temperature** >250 C

Kinematic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNot an explosiveOxidizing propertiesNot applicable

**Other Information** 

Softening point
Molecular weight
VOC Content (%)
Density
No information available

## 10. STABILITY AND REACTIVITY

## Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

## **Conditions to avoid**

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases. Amines. Halogens.

### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation.

**Eye contact** Irritating to eyes.

Skin contact Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

**Ingestion** Based on available data, the classification criteria are not met.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl methacrylate 80-62-6	= 7900 mg/kg (Rat) = 7872 mg/kg (Rat)	> 5 g/kg(Rabbit)	= 4632 ppm (Rat) 4 h
2-Ethylhexyl acrylate 103-11-7	= 4435 mg/kg ( Rat )	= 7522 mg/kg (Rabbit)	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	<del>-</del>	-
Silica, amorphous, fumed, crystalline-free 112945-52-5	= 3160 mg/kg ( Rat )	-	-

#### Information on toxicological effects

Symptoms May cause an allergic skin reaction. May cause redness and tearing of the eyes. May

cause skin irritation. Redness. Coughing and/ or wheezing.

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

**Sensitization**Based on available data, the classification criteria are not met. **Germ cell mutagenicity**Based on available data, the classification criteria are not met.

**Carcinogenicity**This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. The table

below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Resin-polymer Blend	-	Group 3	-	-
Methyl methacrylate 80-62-6	-	Group 3	-	-
2-Ethylhexyl acrylate 103-11-7	-	Group 3	-	-
Titanium dioxide 13463-67-7	-	Group 2B	-	Х
Silica, amorphous, fumed, crystalline-free 112945-52-5	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity** Based on available data, the classification criteria are not met.

STOT - single exposure May cause disorder and damage to the. Respiratory system. Eyes. Skin.

**STOT - repeated exposure**Based on available data, the classification criteria are not met.

Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure.

**Target Organ Effects** Eyes, Respiratory system, Skin.

**Aspiration hazard** Based on available data, the classification criteria are not met.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 7,872.00 mg/kg

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ATEmix (dermal) 5,005.00 mg/kg ATEmix (inhalation-vapor) 4,632.00 mg/l

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name Algae/aquatic plants		Fish	Crustacea
Methyl methacrylate	ethyl methacrylate 170: 96 h Pseudokirchneriella		69: 48 h Daphnia magna mg/L
80-62-6	subcapitata mg/L EC50	promelas mg/L LC50 flow-through	EC50
		125.5 - 190.7: 96 h Pimephales	
		promelas mg/L LC50 static 153.9 -	
		341.8: 96 h Lepomis macrochirus	
		mg/L LC50 static 79: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		flow-through 79: 96 h Oncorhynchus	
		mykiss mg/L LC50 static 170 - 206:	
		96 h Lepomis macrochirus mg/L	
		LC50 flow-through 326.4 - 426.9: 96	
		h Poecilia reticulata mg/L LC50	
		static	
2-Ethylhexyl acrylate	44: 72 h Desmodesmus subspicatus	23: 48 h Leuciscus idus melanotus	17.45: 48 h Daphnia magna mg/L
103-11-7	mg/L EC50 47: 96 h Desmodesmus	mg/L LC50	EC50
	subspicatus mg/L EC50		

### Persistence and degradability

No information available.

### **Bioaccumulation**

Chemical Name	Partition coefficient
Methyl methacrylate 80-62-6	0.7
2-Ethylhexyl acrylate 103-11-7	4.64

#### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal of wastes**This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261). Disposal should be in accordance with applicable regional, national and local laws

and regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number D001 U162

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl methacrylate	U162	Included in waste stream:	-	U162
80-62-6		F039		

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Methyl methacrylate	Toxic
80-62-6	Ignitable

## 14. TRANSPORT INFORMATION

DOT

UN/ID no UN1866 Proper shipping name Resin solution

**Hazard Class Packing Group** 

**Special Provisions** 149, B52, IB2, T4, TP1, TP8 Description UN1866, Resin solution, 3, II

**Emergency Response Guide** 

Number

TDG

UN/ID no UN1866 Proper shipping name Resin solution

**Hazard Class Packing Group** 

Description UN1866, Resin solution, 3, II

IATA

UN/ID no UN1866 Proper shipping name Resin solution

**Hazard Class Packing Group** Ш **ERG Code** 3L **Special Provisions** A3

UN1866, Resin solution, 3, II Description

IMDG

UN/ID no UN1866 Proper shipping name Resin solution

**Hazard Class** Packing Group Ш F-E, S-E **EmS-No** 

Description UN1866, Resin solution, 3, II, (12°C c.c.)

## 15. REGULATORY INFORMATION

**International Inventories** 

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies

Legend:

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical

or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
Methyl methacrylate - 80-62-6	1.0	
SABA 211/212 Hazard Catagories		

SARA 311/312 Hazard Categories

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

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methyl methacrylate 80-62-6	1000 lb	-	-	Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methyl methacrylate	1000 lb	-	RQ 1000 lb final RQ
80-62-6			RQ 454 kg final RQ

### **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name California Proposition 65	
Titanium dioxide - 13463-67-7	Carcinogen

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methyl methacrylate 80-62-6	X	X	X
2-Ethylhexyl acrylate 103-11-7	X	X	Х
Titanium dioxide 13463-67-7	X	X	Х

### **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPAHealth hazards2Flammability3Instability0Physical and Chemical Properties -HMISHealth hazards2Flammability3Physical hazards0Personal protectionX

Issue Date 13-Aug-2015
Revision Date 01-Jan-2018
Revision Note

No information available

Disclaimer

The information provided in this Material 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.

**End of Safety Data Sheet**