



Issue Date 13-Aug-2015

Revision Date 23-Jan-2018

Version 2

### **1. IDENTIFICATION**

Product identifier Product Name

PUMADEQ CLEANING FLUID

Other means of identification Product Code UN/ID no Synonyms

HEPU865 UN1866 None

Recommended use of the chemical and restrictions on useRecommended UseCleaning agentUses advised againstNo 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 Emergency Telephone 800-486-1278 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 Highly flammable liquid and vapor



Appearance clear liquid

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

### <u>Mixture</u>

Chemical Name	CAS No	Weight-%
Methyl methacrylate *	80-62-6	60 - 100
1,4-Butanediol dimethacrylate *	2082-81-7	1 - 5

\*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

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 containm	ent 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, includ	ing 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

Exposure Guidelines			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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>

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	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	liquid		
Appearance	clear liquid	Odor	Strong Aromatic
Color	clear	Odor threshold	0.34 ppm
Dreparty	Values	Domarka , Mathad	
Property	Values	Remarks • Method	
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	Tag Closed Cup	
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	@ 20 °C	
Vapor density	No information available		
Relative density	0.94		
Water solubility	Insoluble in water		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	>250 C		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	Not an explosive		
Oxidizing properties	Not applicable		
Other Information			
Softening point	No information available		
Molecular weight	No information available		
VOC Content (%)	No information available		
Density	No information available		
-	No information available		
Bulk density	NO INICINALION AVAIIADIE		

# **10. STABILITY AND REACTIVITY**

Reactivity No data available

<u>Chemical stability</u> Stable under recommended storage conditions. <u>Possibility of Hazardous Reactions</u> None under normal processing. <u>Conditions to avoid</u> Heat, flames and sparks. <u>Incompatible materials</u> Strong oxidizing agents. Strong acids. Strong bases. Amines. Halogens. <u>Hazardous Decomposition Products</u> 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	= 7900 mg/kg (Rat) = 7872 mg/kg	> 5 g/kg (Rabbit)	= 4632 ppm (Rat) 4 h
80-62-6	(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 Germ cell mutagenicity Carcinogenicity	Based on ava	ailable data, the classificat ailable data, the classificat ow indicates whether each	ion criteria are not met.	gredient as a carcinogen.
Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl methacrylate 80-62-6	-	Group 3	-	-
IARC (International Age Not classifiable as a hum	ency for Research on Cance an carcinogen	r)		
Reproductive toxicity	Based on ava	Based on available data, the classification criteria are not met.		
STOT - single exposure	May cause di	May cause disorder and damage to the. Respiratory system. Eyes. Skin.		
STOT - repeated exposu	re Based on ava	ailable data, the classificat	ion criteria are not met.	
Chronic toxicity	Repeated con exposure.	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.		
Target Organ Effects Aspiration hazard	<i>, , , , , , , , , ,</i>	atory system, Skin. ailable data, the classificat	ion 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
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	170: 96 h Pseudokirchneriella	243 - 275: 96 h Pimephales	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	

#### Persistence and degradability No information available.

### **Bioaccumulation**

Chemical Name	Partition coefficient	
Methyl methacrylate	0.7	
80-62-6		

### 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** 

D001 U162

Do not reuse container.

**US EPA Waste Number** 

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 Proper shipping name Hazard Class Packing Group Special Provisions Description Emergency Response Guide Number	UN1866 Resin solution 3 II 149, B52, IB2, T4, TP1, TP8 UN1866, Resin solution, 3, II 127
TDG UN/ID no Proper shipping name Hazard Class Packing Group Description	UN1866 Resin solution 3 II UN1866, Resin solution, 3, II
IATA UN/ID no Proper shipping name Hazard Class Packing Group ERG Code Special Provisions Description	UN1866 Resin solution 3 II 3L A3 UN1866, Resin solution, 3, II

#### IMDG

UN/ID no	UN1866
Proper shipping name	Resin solution
Hazard Class	3
Packing Group	II
EmS-No	F-E, S-E
Description	UN1866, Resin solution, 3, II, (12°C c.c.)

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
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
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		
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 does not contain any Proposition 65 chemicals

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methyl methacrylate	X	Х	Х
80-62-6			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

<u>NFPA</u>	Health hazards 2	Flammability 3	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 2	Flammability 3	Physical hazards 0	Personal protection X
Issue Date Revision Date Revision Note No information available Disclaimer	13-Aug-2 23-Jan-2			

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