



## Safety Data Sheet Pumaflex 30 SL

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** PUMAFLEX 30SL

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Sealant

#### 1.3 Details of the supplier of the safety data sheet

**Supplier** TQ3 North America  
23 Commerce Rd. Unit A  
Fairfield, NJ 07004  
Phone: 973-882-7900  
Fax: 973-882-7905  
This telephone number is available during office hours only.

For further information, please contact: [info@tq-3.com](mailto:info@tq-3.com)

#### 1.4 Emergency telephone number

##### **Emergency telephone number**

Chemtrec: 1-800-424-9300 for US

+1 703-527-3887 outside US

### 2. Hazards identification

#### 2.1 **Classification of the substance or**

##### **mixture Flammable Liquid, 3**

Skin corrosion/irritation	Category 2 - (H315)
Skin sensitization	Category 1 -
(H317) Specific target organ toxicity (single exposure)	Category 3 -
(H335) Chronic aquatic toxicity	Category 3 -
(H412)	
Flammable liquids	Category 2 - (H225)

#### 2.2 **Label elements**

*For the full text of the R-phrases mentioned in this Section, see Section 16*

#### **Signal Word: Danger**

#### **Hazard pictograms**



**Hazard Statements**

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H335 - May cause respiratory irritation
- H412 - Harmful to aquatic life with long lasting effects
- H225 - Highly flammable liquid and vapor

EUH208 - May produce an allergic reaction

**Precautionary Statements**

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P273 - Avoid release to the environment
- P243 - Take precautionary measures against static discharge
- P271 - Use only outdoors or in a well-ventilated area
- P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

**Hazardous ingredients which must be listed on the label**

Contains METHYL METHACRYLATE

**Supplemental information**

**Other hazards**

No information available

**3. Composition/Information on Ingredients**

**3.1 Substances**

This product is a mixture. Health hazard information is based on its components

**3.2 Mixtures**

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548/EEC)	Classification (1272/2008/EC)	REACH Registration Number
METHYL METHACRYLATE	201-297-1	80-62-6	25 - 50	F; R11 Xi; R37/38 R43	STOT SE 3 (H335) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Flam Liq. 2 (H225)	01-2119452498-28-XXXX
DECANEDIOIC ACID ESTER	255-437-1	41556-26-7	< 1	R43 N; R50	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	17-2119931815-34-XXXX
TRIETHYLENGLYCOL DIMETHACRYLATE	203-652-6	109-16-0	< 1	R43	Skin Sens. 1 (H317)	01-2119969287-21-XXXX

DODECANETHIOL	203-984-1	112-55-0	< 1	Xi; R36/37/38 R53	Skin Corr. 1C (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119491318-31-XXXX
DECANEDIOIC ACID	280-060-4	82919-37-7	< 1	R43 N; R50-53	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	05-2114346636-43-XXXX
2-HYDROXYETHYL METHACRYLATE	212-782-2	868-77-9	< 1	Xi; R36/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	01-2119490169-29-XXXX
4-Methoxyphenol	205-769-8	150-76-5	< 0.1	Xn; R22 Xi; R36 R43	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	no data available

**For the full text of the R-phrases mentioned in this Section, see Section 16**

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

## 4. First Aid Measures

### Description of first-aid measures

<b>General Advice</b>	Move out of dangerous area. Take off contaminated clothing immediately.
<b>Eye Contact</b>	Remove contact lenses, if present. Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Call a physician if irritation develops or persists.
<b>Ingestion</b>	Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately.
<b>Inhalation</b>	Move to fresh air. Keep respiratory tract clear. If unconscious place in recovery position and seek medical advise. If not breathing, give artificial respiration. Call a physician if irritation develops or persists.

### 4.1 Most important symptoms and effects, both acute and delayed

**Main Symptoms** No information available

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

**Notes to physician** Treat symptomatically

## 5. Fire-Fighting Measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>), Water mist.

#### Extinguishing media which shall not be used for safety reasons

High volume water jet.

### **5.2 Special hazards arising from the substance or mixture**

Hazardous decomposition products formed under fire conditions. Flash back possible over considerable distance. Explosive reaction may occur on heating or burning. Burning produces irritant fumes.

### **5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Keep containers and surroundings cool with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## **6. Accidental Release Measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system.

### **6.3 Methods and materials for containment and cleaning up**

#### **Methods for Containment**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

#### **Methods for cleaning up**

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment.

### **6.4 Reference to other sections**

See Section 12 for additional information.

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Provide exhaust ventilation close to floor level. Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Open drum carefully as content may be under pressure. Use only in well-ventilated areas. Vapors may form explosive mixtures with air. Keep product and empty container away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge. Do not use sparking tools. Use only explosion-proof equipment. Have fire extinguishers ready before opening the drum.

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

#### **Technical measures/Storage conditions**

Store in original container. Never fill containers more than 80 % because aerial oxygen is necessary for stabilising. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep in an area equipped with solvent resistant flooring. Do not store together with oxidizing and self-igniting products.

### **7.3 Specific end uses**

#### **Specific use(s)**

No information available

**Exposure scenario**

No information available

**8. Exposure Controls/Personal Protection****8.1 Control parameters****Exposure Limit Values**

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
METHYL METHACRYLAT E 80-62-6		STEL 100 ppm STEL 420 mg/m <sup>3</sup> TWA: 50 ppm TWA: 210 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 208 mg/m <sup>3</sup> STEL: 100 ppm STEL: 416 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 102 mg/m <sup>3</sup> Skin	TWA: 10 ppm TWA: 42 mg/m <sup>3</sup> STEL: 50 ppm STEL: 210 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 100 ppm STEL: 410 mg/m <sup>3</sup>
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	The Netherlands
METHYL METHACRYLAT E 80-62-6	TWA: 50 ppm TWA: 210 mg/m <sup>3</sup>	TWA: 50 ppm S* Ceiling: 100 ppm STEL: 100 ppm	TWA: 50 ppm STEL: 100 ppm	STEL: 100 ppm STEL: 410 mg/m <sup>3</sup> TWA: 50 ppm TWA: 205 mg/m <sup>3</sup>	STEL: 100 ppm TWA: 50 ppm	STEL: 410 mg/m <sup>3</sup> TWA: 205 mg/m <sup>3</sup>
Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	The United Kingdom
METHYL METHACRYLAT E 80-62-6	TWA: 25 ppm TWA: 100 mg/m <sup>3</sup> Skin STEL: 100 ppm STEL: 400 mg/m <sup>3</sup>	STEL: 100 ppm TWA: 50 ppm	STEL: 100 ppm TWA: 50 ppm	LLV: 50 ppm LLV: 200 mg/m <sup>3</sup> S* STV: 150 ppm STV: 600 mg/m <sup>3</sup>	STEL: 100 ppm STEL: 420 mg/m <sup>3</sup> TWA: 50 ppm TWA: 210 mg/m <sup>3</sup>	STEL: 100 ppm STEL: 416 mg/m <sup>3</sup> TWA: 50 ppm TWA: 208 mg/m <sup>3</sup>
2- HYDROXYETHYL METHACRYLATE 868-77-9	TWA: 2 ppm TWA: 11 mg/m <sup>3</sup> STEL: 4 ppm STEL: 16.5 mg/m <sup>3</sup>					

TWA: Time weighted average  
 STEL: Short term exposure limit  
 LLV: Level Limit Value  
 STV: Short Term Value

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

**8.2 Exposure controls****Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye/Face Protection**

Tightly fitting safety goggles. Eye wash bottle with pure water

**Hand Protection**

Solvent-resistant gloves. Suitable material: butyl-rubber. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Follow the skin protection plan.

**Skin & body protection**

Follow the skin protection plan. Flame retardant antistatic protective clothing. Remove and wash contaminated clothing before re-use.

**Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Preferably a compressed airline breathing apparatus.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Keep working clothes separately.

**Environmental Exposure Controls**

Prevent product from entering drains. Do not allow material to contaminate ground water system.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	
<b>Color</b>	pigmented	
<b>Odor</b>	like acrylic	
<b>Odor Threshold</b>	0.05 ppm	
<b>Property</b>	<b>Values</b>	
<b>pH</b>	Not Applicable	
<b>Boiling point/boiling range</b>	100.3 °C (MMA) / 213 °F	
<b>Flash Point</b>	11.5 °C (MMA) / 53 °F	
<b>Explosion Limits</b>		
<b>upper</b>	12.5 Vol.% (MMA)	
<b>lower</b>	2.1 Vol.% (MMA)	
<b>Vapor pressure</b>	38.7 mbar (MMA)	(Air = 1.0)
<b>Vapor density</b>	Not Applicable	
<b>Relative density</b>	Not Applicable	
<b>Water solubility</b>	insoluble	
<b>Partition coefficient: n-octanol/water</b>	1.38 log POW (MMA)	
<b>Viscosity, kinematic</b>	490 - 700 mPa.s (25 °C)	
<b>Explosive properties</b>	Not Applicable	
<b>Evaporation rate</b>	Not Applicable	

### 9.2 Other information

<b>Volatile organic compounds (VOC) content</b>	Not Applicable
<b>Density</b>	1.36 g/cm <sup>3</sup> (25 °C)
<b>Bulk Density</b>	Not Applicable
<b>Melting/freezing point</b>	-48 °C (MMA) / -54 °F
<b>Autoignition temperature</b>	

## 10. Stability and Reactivity

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

#### Hazardous Polymerization

Polymerization occurs when exposed to white light, ultraviolet light or heat. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

### 10.4 Conditions to Avoid

Heat, flames and sparks. Exposure to sunlight.

### 10.5 Incompatible Materials

Avoid radical-forming starting agents, peroxides and reactive metals. Amines. Heavy metal compounds. Oxidizing agents. Reducing agents.

### 10.6 Hazardous Decomposition Products

No hazardous decomposition products are known.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Product Information

**Inhalation** Irritating to respiratory system. Irritating to mucous membranes.

**Eye contact** There are no data available for this product.

**Skin contact** Irritating to skin. May cause sensitization by skin contact.

**Ingestion** There are no data available for this product.

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
METHYL METHACRYLATE	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	4632 ppm (Rat) 4 h

**Chronic toxicity** No information available.

**Skin corrosion/irritation** Irritating to skin.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

**Germ Cell Mutagenicity** No information available.

**Reproductive toxicity** No information available.

**Specific target organ systemic toxicity (single exposure)** No information available.

**Specific target organ systemic toxicity (repeated exposure)** No information available.

**Aspiration hazard** No information available

**Carcinogenicity** No information available.

## 12. Ecological information

### 12.1 Toxicity

**Ecotoxicity effects** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. .

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
METHYL METHACRYLATE	EC50: 96 h Pseudokirchneriella subcapitata 170 mg/L	LC50: 96 h Pimephales promelas 243 - 275 mg/L flow-through LC50: 96 h Pimephales promelas 125.5-190.7 mg/L static LC50: 96 h Lepomis macrochirus 170 - 206 mg/L flow-through LC50: 96 h Lepomis macrochirus 153.9 - 341.8 mg/L static LC50: 96 h Oncorhynchus mykiss 79 mg/L	EC50: 48 h Daphnia magna 69 mg/L

		flow-through LC50: 96 h Oncorhynchus mykiss 79 mg/L static LC50: 96 h Poecilia reticulata 326.4 - 426.9 mg/L static	
DECANEDIOIC ACID ESTER		LC50: 96 h Lepomis macrochirus 0.97 mg/L static	
2-HYDROXYETHYL METHACRYLATE		LC50: 96 h Pimephales promelas 213 - 242 mg/L flow-through LC50: 96 h Pimephales promelas 227 mg/L	
4-Methoxyphenol		LC50: 96 h Pimephales promelas 84.3 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 28.5 mg/L flow-through	

**12.2 Persistence and degradability**

Partially biodegradable.

**12.3 Bioaccumulative potential**

No data are available on the product itself.

Chemical Name	log Pow
METHYL METHACRYLATE	0.7
DECANEDIOIC ACID ESTER	0.37
2-HYDROXYETHYL METHACRYLATE	0.47
4-Methoxyphenol	1.34

**12.4 Mobility in soil**

No data is available on the product itself.

**12.5 Results of PBT and vPvB assessment**

No information available

**12.6 Other adverse effects.**

No information available

## 13. Disposal Considerations

**13.1 Waste treatment methods**

**Waste from residues / unused products**

Dispose of as hazardous waste in compliance with local and national regulations. - waste paint and varnish containing organic solvents or other dangerous substances.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Waste CodE - packaging containing residues of or contaminated by dangerous substances.

**Other information**



## 14. Transport Information

Reactive Flammable Material.

### ADR

<b>UN Number</b>	1866
<b>Proper shipping name</b>	1866 - Resin solution
<b>Hazard class</b>	3
<b>Packing Group</b>	II
<b>Tunnel Restriction Code</b>	D/E
<b>ADR/RID-Labels</b>	3
<b>Hazard identification No</b>	33

### IMDG

<b>UN Number</b>	1866
<b>Proper shipping name</b>	1866 - Resin solution
<b>Hazard class</b>	3
<b>Packing Group</b>	II
<b>Marine pollutant</b>	No
<b>EmS No.</b>	F-E, S-E

### IATA

<b>UN Number</b>	1866
<b>Proper shipping name</b>	1866 - Resin solution
<b>Hazard class</b>	3
<b>Packing Group</b>	II

## 15. Regulatory information

15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information**

Chemical Name	French RG number
METHYL METHACRYLATE	RG 65, RG 82
2-HYDROXYETHYL METHACRYLATE	RG 65
4-Methoxyphenol	RG 65

### International Inventories

<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	-
<b>DSL</b>	-
<b>PICCS</b>	-
<b>ENCS</b>	-
<b>IECSC</b>	Complies
<b>AICS</b>	Complies
<b>KECL</b>	-

### **Legend**

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

### 15.2 Chemical Safety Assessment

No information available

## 16. Other information

**Full text of R-phrases referred to under sections 2 and 3**

R11 - Highly flammable  
R43 - May cause sensitization by skin contact  
R50 - Very toxic to aquatic organisms  
R53 - May cause long-term adverse effects in the aquatic environment  
R37/38 - Irritating to respiratory system and skin  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R36/38 - Irritating to eyes and skin  
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Full text of H-Statements referred to under section 3**

H317 - May cause an allergic skin reaction  
H314 - Causes severe skin burns and eye damage  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H335 - May cause respiratory irritation  
H315 - Causes skin irritation  
H225 - Highly flammable liquid and vapor  
H319 - Causes serious eye irritation

**Legal disclaimer:**

**TQ3 urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the printed date. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDS's, we are not and cannot be responsible for MSDS's obtained from any source other than ourselves. If you have obtained an MSDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.**

<b>Prepared By</b>	TQ3 North America, Inc.
<b>Revision Date</b>	7/13/2015
<b>Revision Note</b>	Not Applicable

**End of Safety Data Sheet**