



# Safety Data Sheet Pumaprime 20

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

**1.1 Product identifier**

**Product name** Pumaprime20

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

**Recommended Use** Primers

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

**Supplier** TQ3 North America, Inc  
 23 Commerce Road, 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

**2. Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation**

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

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

**2.2 Label elements**

**Hazard pictograms**



**Signal Word**

Danger

**Hazard Statements**

H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H335 - May cause respiratory irritation  
 H225 - Highly flammable liquid and vapor

**Precautionary Statements - EU (§28, 1272/2008)**

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  
 P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray  
 P271 - Use only outdoors or in a well-ventilated area

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

Contains METHYL METHACRYLATE, ETHYLENGLYCOL DIMETHACRYLATE

**Supplemental information****2.3 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	50 - 75	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
ETHYLENGLYCOL DIMETHACRYLATE	202-617-2	97-90-5	1 - 2.5	Xi; R37 R43	Skin Sens. 1 (H317) STOT SE 3 (H335)	01-2119965172-38-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

**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

**4.1 Description of first-aid measures**

<b>General advice</b>	Move out of dangerous area. Take off all contaminated clothing immediately.
<b>Eye contact</b>	Remove contact lenses, if present. Rinse immediately with plenty of water, also under the 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 advice. If not breathing, give artificial respiration. Call a physician if irritation develops or persists.

#### **4.2 Most important symptoms and effects, both acute and delayed**

**Main Symptoms** No information available.

#### **4.3 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>), Watermist.

#### **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 and 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

Physical state

Liquid

**Color** Colorless  
**Odor** like acrylic  
**Odor Threshold** 0.05 ppm

#### Property

#### Values

**pH** Not Applicable  
**Boiling point/boiling range** 100.3 °C (MMA) / 213 °F **Flash Point** 11.5 °C (MMA) / 53 °F **Explosion Limits**  
**upper** 12.5 Vol.% (MMA)  
**lower** 2.1 Vol.% (MMA)

**Notes** Vapor pressure **38.7 mbar (MMA)(Air = 1.0)**

**Vapor density** Not Applicable

**Relative density** Not Applicable

**Water solubility** insoluble

**Partition coefficient: n-octanol/water** 1.38 log POW (MMA)

**Viscosity, kinematic**  
 100 - 130 mPa.s (25 °C)

**Explosive properties** Not Applicable

**Evaporation rate** Not Applicable

### 9.2 Other information

#### Volatile organic compounds (VOC) content

Not Applicable

**Density** 0.99 g/cm<sup>3</sup> (25 °C)

**Bulk Density** Not Applicable

**Melting/freezing point** -48 °C (MMA) / -54 °F

**Autoignition temperature**

## 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**

<b>Inhalation</b>	Irritating to respiratory system. Irritating to mucous membranes.
<b>Eye contact</b>	There are no data available for this product.
<b>Skin contact</b>	Irritating to skin. May cause sensitization by skin contact.
<b>Ingestion</b>	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
ETHYLENGLYCOL DIMETHACRYLAT	> 5000 mg/kg (Rat)		

<b>Chronic toxicity</b>	No information available.
<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Respiratory or skin sensitization</b>	May cause sensitization by skin contact.
<b>Germ Cell Mutagenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available.
<b>Aspiration hazard</b>	No information available
<b>Carcinogenicity</b>	No information available.

## 12. Ecological information

### 12.1 Toxicity

#### Ecotoxicity effects

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	EC50: 48 h Daphnia magna 69 mg/L

		Oncorhynchus mykiss 79 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	
2-HYDROXYETHYL METHACRYLATE		LC50: 96 h Pimephales promelas 213 - 242 mg/L flow-through LC50: 96 h Pimephales promelas 227 mg/L	

### 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
2-HYDROXYETHYL METHACRYLATE	0.47

### 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. European Waste Catalogue. 080111 - 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. 150110 - packaging containing residues of or contaminated by dangerous substances.

**Other information**  
European Waste Catalog.

## 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

**Germany WGK Classification** WGK = 1 (self classification)  
**Germany GIS Code** RMA 10

**Denmark - MAL Factor** MAL-kode 4-5

Chemical Name	French RG number
METHYL METHACRYLATE	RG 65, RG 82
ETHYLENGLYCOL DIMETHACRYLATE	RG 65
2-HYDROXYETHYL METHACRYLATE	RG 65

#### International Inventories

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

#### **Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances



**KECL** - Korean Existing and Evaluated Chemical Substances  
"- " - Unknown. Not listed.

## 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  
R37 - Irritating to respiratory system  
R37/38 - Irritating to respiratory system and skin  
R36/38 - Irritating to eyes and skin

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

H335 - May cause respiratory irritation  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H225 - Highly flammable liquid and vapor  
H319 - Causes serious eye irritation

Prepared BY: TQ3 North America, Inc 17-Apr-2015

Revision Note **Not Applicable.**

### 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 SDS's obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.**

**End of Safety Data Sheet**

---