

Safety Data Sheet

PUMA CLEANING FLUID

Revision Date: 07/21/15
Version 1

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

1.1 Product identifier

Product name PUMA CLEANING FLUID

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

Recommended Use Cleaning agent

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

1.4 Emergency telephone number

Emergency telephone number Chemtrec: 1-800-424-9300 for US
+1 703-527-3887 outside the US

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation 1272/2008

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)

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

Supplemental information

2.3 Other hazards

No information available

3. Composition/Information on Ingredients

3.1 Substances

-

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	75 - 100	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

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

General advice	Move out of dangerous area. Take off all contaminated clothing immediately.
Eye contact	Remove contact lenses, if present. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
Skin contact	Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Call a physician if irritation develops or persists.
Ingestion	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.
Inhalation	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 (CO₂), 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 floorlevel. 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

9 **Exposure Limit Values**

- 10
- 11 TWA: Time weighted average
- 12 STEL: Short term exposure limit
- 13 LLV: Level Limit Value
- 14 STV: Short Term Value
- 15

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

15.1 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

<u>Property</u>	<u>Values</u>	
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)	
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	< 1 mPa.s (25 °C)	
Explosive properties	Not Applicable	
Evaporation rate	Not Applicable	

9.2 Other information

Volatile organic compounds (VOC) content	Not Applicable
Density	0.94 g/cm ³ (25 °C)
Bulk Density	Not Applicable
Melting/freezing point	-48 °C (MMA) / -54 °F
Autoignition temperature	

10. Stability and Reactivity

Stable under normal conditions.

10.1 Chemical stability

Stable under normal conditions.

10.2 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.

10.3 Conditions to Avoid

Heat, flames and sparks. Exposure to sunlight.

10.4 Incompatible Materials

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

10.5 Hazardous Decomposition Products

10.6 Reactivity

11. Toxicological Information

11

No hazardous decomposition products are known.

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

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 flow-through LC50: 96 h	EC50: 48 h Daphnia magna 69 mg/L

		Oncorhynchus mykiss 79 mg/L static LC50: 96 h Poeciliareticulata 326.4 - 426.9 mg/L static	
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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

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. 080111[S].

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. 150110[S].

Other information

European Waste Catalog.

1247 - Methyl methacrylate, monomer, stabilized.

ADR

UN Number	1247
Proper shipping name	1247 - Methyl methacrylate, monomer, stabilized
Hazard class	3
Packing Group	II
Tunnel Restriction Code	D/E
ADR/RID-Labels	3
Hazard identification No	339

IMDG

UN Number	1247
Proper shipping name	1247 - Methyl methacrylate, monomer, stabilized
Hazard class	3
Packing Group	II
Marine pollutant	No
EmS No.	F-E, S-D

IATA

UN Number	1247
Proper shipping name	1247 - Methyl methacrylate, monomer, stabilized
Hazard class	3
Packing Group	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

International Inventories

TSCA	-
EINECS/ELINCS	-
DSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

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 R37/38 - Irritating to respiratory system 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

Prepared By TQ3 North America

Revision Date 7/21/2015

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