

Printing date 15.06.2021

Version number 3 (replaces version 2)

Revision: 15.06.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 Product identifier

**Trade name:** PENETRON® PUMP FLUSH **UFI:** 2050-M0CF-U00T-6SN2

**1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available. **Application of the substance / the mixture:** Solvent-free equipment cleaning fluid

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: PENETRON HELLAS S.A. G.E.MH. No: 07278001000
50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE TEL.: +30 210 2448250 - FAX: + 30 210 2476803
Email: info@penetron.gr Site: www.penetron.gr
1.4 Emergency telephone number:



\*

European Emergency Tel.: 112

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation EC No 1272/2008 CLP:



Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

**Labelling according to Regulation EC No 1272/2008 CLP:** The product is classified and labelled according to the CLP regulation. **Hazard pictograms:** 



Signal word: Warning

#### Hazard statements:

H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P102Keep out of reach of children.P264Wash thoroughly after handling.

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<b>Frade name:</b> PEN	ETRON® PUMP FLUSH	
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P273	Avoid release to the environment.	
P280	Wear eye protection / face protection	
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. R present and easy to do. Continue rinsing.	Remove contact lenses, if
P337+P313	If eye irritation persists: Get medical advice/attention.	
P501	Dispose of contents/container in accordance with local/regional regulations.	/national/international
2.3 Other haz	ards	
<b>Results of PB</b>	Γ and vPvB assessment	
<b>PBT:</b> Not appl	icable.	
<b>vPvB:</b> Not app		

SECTION 3: Comp	oosition/information on ingredients			
3.2 Mixtures				
Description: Mixture: consisting of the following components.				
Ingredients according Regulation (EU) 2020/878:				
CAS: 1119-40-0	Pentanedioic acid, 1,5-dimethyl ester	55-65%		
EINECS: 214-277-2				
	CTS-15-072	10-30%		
	Degret Eye Irrit. 2, H319; Aquatic Chronic 3, H412			
CAS: 106-65-0	dimethyl succinate	10-25%		
EINECS: 203-419-9				
		l		

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### **General information:**

Take affected persons out into the fresh air.

In all cases call a doctor

#### After inhalation:

If breathing is difficult, remove to fresh air. Restore breathing. Keep warm and quiet. Notify physician. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Seek medical treatment in case of complaints.

### After skin contact:

Wash the skin immediately with soap and water.

If skin irritation continues, consult a doctor.

#### After eye contact:

Rinse opened eye for at least 15 minutes under running water.

Remove contact lenses and continue rinsing for several minutes

If symptoms persist, consult a doctor.

Avoid strong water jet-risk of cornea damage, consult a doctor.

### After swallowing:

Do not induce vomiting.

Rinse out mouth and then drink plenty of water.

Never give anything by mouth to an unconscious person.

Seek immediate medical advice.

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

Eye contact may cause eye irritation with discomfort, tearing, or blurring of vision.

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Skin contact may cause skin irritation with discomfort or rash.

Inhalation may cause irritation of the upper respiratory passages, with coughing and discomfort. Some individuals who have been overexposed by inhalation or skin contact experienced blurry vision.

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

The mechanism of blurred vision in humans is unknown. Based on observed effects from animal studies, some symptoms of pre-existing eye disease could be aggravated by overexposure to this material.

Activated charcoal mixture may be beneficial. Suspend 50g activated charcoal in 400 ml water and mix well. Administer 5 ml/kg, or 350 ml for an average adult.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

Use fire-extinguishing media appropriate for surrounding materials.

Flood with large amounts of water, and water spray may be used to cool down containers exposed to fire.

CAUTION: Use of water spray when fighting fire may be inefficient.

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

Keep containers tightly closed. Isolate from all sources of ignition.

In a fire nitrogen oxides (NOx), carbon monoxide (CO), sulfur dioxide (SO2) can be released.

Carbon monoxide (CO)

Carbon dioxide (CO2)

Carbon oxides

#### **5.3 Advice for firefighters**

### **Protective equipment:**

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Cool closed containers exposed to fire by spraying water.

### Additional information

Slight fire hazard when exposed to heat or flame.

Wear self-contained breathing apparatus for confined spaces and where there is exposure to vapors.

#### **SECTION 6: Accidental release measures**

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

Wear protective equipment. Keep unprotected persons away.

Avoid inhalation of vapors.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

6.1.1 For non-emergency personnel Avoid contact with dripping or leaking material

### 6.1.2 For emergency responders

First-aid responders must wear protectice clothing, gloves, goggles and respiratory device with filter type A. **6.2 Environmental precautions:** See section 12 for Ecological Information.

#### 6.3 Methods and material for containment and cleaning up:

Use explosion proof equipment. Shut off valves, contain spill and keep out of water sources/sewers. For smaller spills, add non-flammable absorbent material in spill area.

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill: Oxidizing material. Poisonous solid. Stop leak if without risk. Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing). Keep substance damp using water spray.

Do not touch spilled material. Use water spray to reduce vapors. Call for assistance on disposal.

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### 6.4 Reference to other sections:

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Ensure good ventilation.

Avoid contact with skin and eyes.

Avoid inhaling vapors.

Do not eat, drink or smoke during the usage of the product.

Wash hands before each break and after finishing work.

Information about fire - and explosion protection:

This material presents a slight fire hazard.



Keep ignition sources away - Do not smoke.

Keep away from heat, sparks, open flames and hot surfaces.

# 7.2 Conditions for safe storage, including any incompatibilities

### Storage:

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Do not store above 120°F (49°C). Store large quantities only in cool, dry areas in buildings designed to comply with OSHA 1910.106.

Keep containers tight and upright to prevent leakage.

Requirements to be met by storerooms and receptacles:

Containers should be Bonded and Grounded when pouring.

Avoid free fall of liquid in excess of a few inches.

Empty containers release residue and can be dangerous.

Do not attempt to clean. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner.

# Information about storage in one common storage facility:

Do not store together with acids.

Store away from oxidising materials.

Do not store with alkalis

# Further information about storage conditions:

Keep container tightly sealed.

Keep away from children

7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

# **8.1 Control parameters**

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Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

# 8.2 Exposure controls

# 8.2.1. Appropriate engineering controls

Showers, eyewash stations, ventilation systems. Provide general dilution or local exhaust ventilation in volume and pattern to keep concentrations within permitted exposure limits. All areas should be ventilated in

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accordance with OSHA Regulation 29 CFR Part 1910. Explosion proof motors should be used in mechanical ventilation.

#### Individual protection measures, such as personal protective equipment General protective and hygienic measures:

Consider the potential hazards of this material (Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended.

Do not eat, drink or smoke while using the product.

Avoid contact with skin and eyes.

Keep away from foodstuffs, beverages and feed.

Do not breathe vapours or mists.

Wash hands before breaks and at the end of work.

**Respiratory protection:** 



In case of insufficient ventilation use suitable respiratory protective device.

### Hand protection



Protective gloves resistant to chemicals (standard EN 374-1)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Butyl rubber

# Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. **Eye/face protection** 



Tightly sealed goggles (EN 166).

# **Body protection:**



Chemical resistant protective suit.

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties **General Information Physical state** Liquid **Colour: Odour: Odour threshold:** 

Not determined Sweetish Not determined

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Melting point/freezing point:	-4 °C	
	Not determined	
Boiling point or initial boiling point and boiling		
range	195-230 °C	
	Not determined	
Flammability	Not applicable	
Lower and upper explosion limit		
Lower:	0.9 Vol %	
Upper:	8.0 Vol %	
Flash point:	100 °C	
	Not Flammable	
Auto-ignition temperature:	Product is not selfigniting.	
Decomposition temperature:	Not determined	
рН	Not determined	
Viscosity:		
Kinematic viscosity	Not determined	
Kinematic viscosity		
Dynamic:	Not determined	
Solubility		
water:	$5,3\% \ 20^{\circ}$	
Partition coefficient n-octanol/water (log value)	Not determined	
Vapour pressure at 20 °C:	0.2 mmHg	
Density and/or relative density	6	
Density:	Not determined	
Relative density at 20 °C	1.092	
Vapour density	Not determined	
9.2 Other information		
Appearance:		
Form:	Liquid	
Important information on protection of health an	-	
environment, and on safety.		
Auto-ignition temperature:	370 °C	
	Not determined	
Explosive properties:	Product does not present an explosion hazard.	
Cloud point / clarification point:	<b>A B</b>	
Oxidising properties	Not considered as oxidising.	
Evaporation rate at 20 °C	>1 (n-Butyl Acetate=1)	
Information with regard to physical hazard class		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
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Self-heating substances and mixtures Substances and mixtures, which emit flamm		(Contd. of page 6)
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

#### **SECTION 10: Stability and reactivity**

10.1 Reactivity Stable under normal conditions
10.2 Chemical stability Material is stable under normal conditions.
Thermal decomposition / conditions to be avoided Stable at environment temperature.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid
The product should not be exposed to high temperatures, sparks, flame and electrostatic charges.
10.5 Incompatible materials
Strong oxidising substances.
Alkalis
Acids
10.6 Hazardous decomposition products Toxic gases and vapors may be released if involved in a fire.

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Oral LD50 (Rat)= 8191 mg/kg.

Dermal LD50 (Rabbit)= 2250 mg/kg.

Inhalation LC50 (Rat)= 11 mg/L 4 h

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

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

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

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

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

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

Additional toxicological information:

Repeated dose toxicity Based on available data, the classification criteria are not met.

**11.2 Information on other hazards** 

**Endocrine disrupting properties** 

None of the ingredients is listed.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Oral LD50 (Rat)= 8191 mg/kg. Dermal LD50 (Rabbit)= 2250 mg/kg. Inhalation LC50 (Rat)= 11 mg/L 4 h

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Printing date 15.06.2021 Version number 3 (replaces version 2) Revision: 15.06.2021 **Trade name: PENETRON® PUMP FLUSH** (Contd. of page 7) Aquatic toxicity: No further relevant information available. 12.2 Persistence and degradability Fathead Minnows: LC50 96 hour 18-24 mg/L. Daphnia Magna (Water Flea): LC50 48 hour 112-150 mg/L. **Other information:** Dimethyl glutarate (1119-40-0): 70% biodegradability in day 7. CTS-15-072 (Trade Secret): 58% biodegradability in day 7 and 84% biodegradability in day 14. Dimethyl succinate (106-65-0): 67% biodegradability in day 7. 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11. 12.7 Other adverse effects **Remark:** Harmful to fish Additional ecological information: **General notes:** The product contains materials that are harmful to the environment. Harmful to aquatic organisms **SECTION 13: Disposal considerations** 13.1 Waste treatment methods Recommendation



Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information. Dispose according local and international regulations

# Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information		
14.1 UN number or ID number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
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14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR, IMDG, IATA	Void	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according to IMO		
instruments	Not applicable.	
UN "Model Regulation":	Void	

### **SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

\*

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as ammended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

Directive 2012/18/EU Named dangerous substances - ANNEX I Does not contain named substances. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:

#### Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases** 

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

#### **Training hints**

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

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#### **Department issuing SDS: SUST**<sup>⊕</sup> SUSTCHEM S.A. снем **REACH & Chemical Services Department** A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece T: +30 210 8252510 | F: +30 210 8252575 W: www.sustchem.gr | E: info@suschem.gr Version number of previous version: 2 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 \* Data compared to the previous version altered.