

Triton Systems

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1. PRODUCT NAME:

TRITON TWS-PU PRIMER

2. HAZARD IDENTIFICATION

2.1 Classification of the mixture.

In accordance with Directive 1999/45/EC:

F - Highly Flammable

Vapours may cause drowsiness and dizziness.

XI – Irritating to eyes and skin.

MSDS Ref:

2.2 Label Elements

Labelling in accordance with Directive 1999 / 45 / EC

Symbols



IRRITANT



HIGHLY **FLAMMABLE**

R Phrases:

R11 Very flammable

R67 Vapours may cause drowsiness and dizziness

R36/38 Irritating to skin and eyes

S Phrases:

Keep container in a well-ventilated place. S9

S16 Keep away from sources of ignition - No smoking

S23 Do not breathe gas/fumes/vapour/spray

S33 Take precautionary measures against static discharges.

S40 To clean the floor and all objects contaminated by this material, use with solvent.

S43 In case of fire, use foam, carbon dioxide or dry dust.

S51 Use only in well ventilated areas.

2.2 Other hazards

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

3. COMPOSITION

3.1 Substances

Not applicable

Substances posing a danger to health or the environment in accordance with the Hazardous Substances Directive 67/548/EEC or Regulation (EC) No. 1272/2008, assigned a community exposure limit in the workplace, and classified as PBT/vPvB or included in candidate list:

Identifiers	Name	Concentrate	(*) Classification Regulation (EC) No 1272 / 2008	(*) Classification Directive 67 / 548 / CEE
Index No: 603-117- 00-0 CAS No: 67-63-0 EC No: 200-661-7 Registration No: 01- 2119457558-25-XXXX	[1] isopropanol, Isopropyl alcohol, Propan-2-ol	20 – 100%	Eye Irrit. 2, H319 – Flam. Liq. 2, H225 – STOT SE 3, H336	F xi R11 R36 R67

^{*)} The complete text of the R and H phrases is given in section 16 of this Safety Data Sheet

[1] Substance with a Community workplace exposure limit (see section 8.1)

4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

EYE CONTACT: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash

eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15

minutes and get medical attention.

SKIN CONTACT: Remove affected person from source of contamination. Promptly wash contaminated

skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention promptly if symptoms occur after washing.

INGESTION: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT

OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention immediately!

INHALATION: Move the exposed person to fresh air at once. Get medical attention if any discomfort

continues. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Keep the affected person warm and at rest. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Irritant product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions.

4.3 Indication of any immediate medical attention and special treatment needed

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

5. FIRE-FIGHTING MEASURES

The product is highly flammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

5.1 Extinguishing Media

Recommended extinguishing methods

Extinguishing powder or CO₂ In case of more serious fires, also alcohol resistant foam and water spray. Do not use a direct stream of water to extinguish.

5.2 Special Hazards arising from the mixture

Special Risks

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters

Use water to cool tanks, cisterns or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers or waterways.

Fire protection equipment

According to size of fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks and gloves.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear protective clothing as described in Section 8 of this safety data sheet

ENVIRONMENTAL PRECAUTIONS: Do not allow to enter drains, sewers or watercourses.

SPILL CLEAN UP METHODS: Clean up personnel should use respiratory and/or liquid contact protection. Absorb in

vermiculite, dry sand or earth and place into containers.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors. (Cont'd......(Cont'd.............



7. HANDLING AND STORAGE Cont'd)

Keep the container tightly closed and isolated from heat sources, sparks and fire. Do not use tools that can cause sparks. For personal protection see Section 8. Never use pressure to empty the containers. They are not pressure resistant containers.

In the application area, smoking, eating and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35°C in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Work exposure limit for:

Name	CAS No.	Country	Limit Value	Ppm	Mg/m³
Isopropanol, Isopropyl	67-63-0	United Kingdom [1]	8 hours	400	999
Alcohol, propan- 2-ol			Short term	500	1250

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Exec This product does NOT contain substances with Biological Limit Values. Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
Isopropanol, isopropyl Alcohol, propan-2-ol N. CAS: 67-63-0 N. CE: 200-661-7	DNEL (workers)	Inhalation, long term, systemic effects	500 (mg/m³)
	DNEL (general population)	Inhalation, long term, systemic effects	89 (mg/m³)
	DNEL (workers)	Dermal, long term, systemic effects	888 (mg/kg bw/day)
	DNEL (general population)	Dermal, long term, systemic effects	319 (mg/kg bw/day)
	DNEL (general population)	Oral, long term, systemic effects	26 (mg/kg bw/day)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
Isopropanol, isopropyl alcohol,	Aqua (fresh water)	140,9 (mg/L)
propan-2-ol	Aqua (marine water)	140,9 (mg/L)
N. CAS: 67-63-0	Aqua (Intermittent releases)	140,9 (mg/L)
N. CE: 200-661-7	Sediment (fresh water)	552 (mg/kg sediment dw)
	Sediment (marine water)	552 (mg/kg sediment dw)
	Soil	28 (mg/kg soil dw)
	PNEC STP	2251 (mg/L)
	PNEC oral (Hazard for predators)	160 (mg/kg food)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure Controls

Measures of a technical nature:

Concentration	100%
Uses:	Additive
Breathing Protection:	

PPE: Filter mask protection against gases and particles

Characteristics: CE Marking, Category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.

CEN Standards: EN 136, EN 140, EN 405

Maintenance: Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be pair to the state of the inhalation and exhalation valves in the face adaptor.

Observations: Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.





Hand Protection:

PPE: Protective gloves against chemicals. Characteristics: CE Marking, Category III

CEN Standards: EN 374-1, EN 374-2, EN 374-3, EN 420

Maintenance: Keep in a dry place, away from sources of heat, and avoid exposure to sunlight as much as possible. Do not make any

changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.

Observations: Gloves should be of the appropriate size and fit the users hand well, not being too loose or too tight. Always use with

clean, dry hands.

Material: PVC (polyvinyl chloride), Breakthrough time >480 (min), Material Thickness 0.35mm



Eye Protection:

PPE: Anti-static protective clothing.

Characteristics: CE Marking, Category II. Face and eye protector against splashing liquid.

CEN standards: EN 165, EN 166, EN 167, EN 168

Maintenance: Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily.

Protectors should be disinfected periodically following the manufacturer's instructions. Make sure that mobile parts move smoothly. Observations: Face shields should offer a field of vision with a dimension in the central line of, at least, 150mm vertically once

attached to the frame.



Skin Protection:

PPE: Anti-static protective clothing

Characteristics: CE Marking, Category II. Protective clothing should not be too tight or too loose in order not to obstruct the user's

CEN Standards: EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5

Maintenance: In order to guarantee uniform protection, following the washing and maintenance instructions provided by the manufacturer.

Observations: The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use

PPE: Anti-static safety footwear.

Characteristics: CE Marking, Category II.

CEN Standards: EN ISO 13287, EN ISO 20344, EN ISO 20346

Maintenance: The footwear should be checked regularly.

Observations: The level of comfort during use and acceptability are factors that are assessed very differently depending on the user.

Therefore, it is advisable to try on different footwear models and, if possible, different widths



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Transparent liquid with characteristic odour	
Colour:	Colourless	
Odour:	Alcohol	
Odour Threshold:	N.A/N.A	
pH:	Not determined	
Melting Point:	Not determined	
Boiling Point:	82°C	
Flash Point:	12°C	
Evaporation rate:	1,2 (butyl acetate=1)	
Inflammability (solid, gas):	Very flammable	
Lower explosive limit:	2%	
Upper explosive limit:	N.A/N.A.	

Vapour Pressure:	4,3 kPa a 20°C		
Vapour density:	>1(air=1)		
Relative density:	0.78 g/cm ³		
Solubility:	Water and some organic solvents		
Liposolubility:	Not determined		
Hydrosolubility:	Soluble		
Partition coefficient (n-octanol/water):	0.05		
Auto-ignition temperature:	N.A/N.A		
Decomposition temperature:	N.A/N.A		
Viscosity:	3 mPa.s		
Explosive properties:	Vapours may form explosive mixtures		
Oxidising properties:	Not determined		

N.A/N.A. = Not available/Not applicable due to the nature of the product.

9.2 Other information

VOC Content (p/p): 99% 860 a/l VOC Content: Pour Point: not determined 425°C Kinematic Viscosity:



10. REACTIVITY

10.1 Reactivity

The product does not present hazards by their reactivity.

10.2 Chemical Stability

Unstable In contact with:

- Acids
- Bases
- Oxidising agents.

10.4 Conditions to avoid.

Avoid the following conditions:

- Heating
- High temperature
- Contact with incompatible materials

10.5 Incompatible materials

Avoid the following materials:

- Acids
- Bases
- Oxidising agents

10.6 Hazardous and decomposition products

Depending on conditions of use, can be generated the following products:

- COX (Carbon oxides)
- Organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and irreversible damage.

a) Acute toxicity: not conclusive for data classification.

b) Irritation: eye irritation, Category 2: causes serious eye irritation.

not conclusive for data classification. Corrosivity: c) not conclusive for data classification. d) Sensitisation: Repeated dose toxicity: not conclusive for data classification. f) Carcinogenity: not conclusive for data classification. Mutagenicity: not conclusive for data classification. g) Toxicity for reproduction: not conclusive for data classification.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information is available regarding ecotoxicity of the substances present.

12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
Isopropanol, isopropyl alcohol, propan-2-ol CAS no: 67-63-0, EC no: 200-661-7	0.05	ı	ı	Very Low

12.4 Mobility in soil

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects

No other information is available about other adverse effects for the environment.

13. WASTE DISPOSAL

13.1 Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

Transport following ADR rules for road transport, RID rules for railway, AND for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID

Transport documentation: Consignment note and written instructions.

Sea: Transport by ship: IMDG

Transport documentation: Bill of loading <u>Air:</u> Transport by plane: ICAO/IATA Transport documentation: Airway bill.

14.1 UN Number UN No: UN1993

14.2 UN Proper shipping name

Description: UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPANOL, ISOPROPYL ALCOHOL, PROPANO-2-OL), 3, PG

II, (D/E)

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group

Packing group: II

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Labels: 3



Hazard number: 33 ADR LQ: 1 L

Transport by ship, Fem – Emergency sheets (F – fire, S – Spills): F-E,S-E

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

The product is not transported in bulk.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

See Annex I of the directive 96/82/EC of December 1996 on the control of major-accident hazards involving dangerous substances and the Regulation (EC) No 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals and its subsequent updates.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): P5b

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use biocidal products. The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment

There has been no evaluation or chemical safety assessment of the product.



16. OTHER INFORMATION

Complete text of the R phrases that appear in Section 3:

R11 Highly Flammable R36 Irritating to eyes

R67 Vapours may cause drowsiness and dizziness

Complete text of the H phrases that appear in Section 3:

H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

DISCI AIMER

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.