



HARMFUL

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1. PRODUCT NAME:

TRITON TWS-FASTCOAT

2. HAZARD IDENTIFICATION

CLASSIFICATION OF THE MIXTURE

In accordance with Directive 1999/45/EC:



HARMFUL

Flammable

Xn – Harmful by inhalation

Xn – May cause sensitisation by inhalation and skin contact.

Xi – Irritating to eyes, respiratory system and skin.

LABEL ELEMENTS

Labelling in accordance with Directive 1999/45/EC:

Symbols: Xn

R Phases:

R10: Flammable
R20: Harmful by inhalation
R42/43 May cause sensitisation by inhalation and skin contact
R36/37/38 Irritating to eyes, respiratory system and skin.

S Phrases:

S23 Do not breathe gas/fumes/vapour/spray.
S24 Avoid contact with skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S40 To clean the floor and all objects contaminated by this material use solvent.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60 This material and its container must be disposed of as hazardous waste.

Other Phrases:

Contains isocyanates, See the information provided by the manufacturer.
Restricted to professional uses: Attention – avoid exposure – ask for special instructions prior to use.

Contains:

Aromatic polyurethane polymer

OTHER HAZARDS:

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

3. COMPOSITION

SUBSTANCES:

Not applicable.

MIXTURES

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 the Candidate List:

(Cont'd)



4. COMPOSITION (.....Cont'd)

Identifiers	Name	Concentrate	(*) Classification Regulation (EC) No 1272/2008	(*) Classification Directive 67/548/CEE
Index No: 601-023-00-4 CAS No: 100-41-4 EC No: 202-849-4 Registration No: 01-2119489370-35-XXXX	[1] ethylbenzene	0 – 25%	Acute Tox. 4 *, H332 – Flam. Liq. 2, H225	F Xn R11 R20
Index No: 607-195-00-7 CAS No: 108-65-6 EC No: 203-603-9 Registration No: 01-2119475791-29-XXXX	[1] 2-methoxy-1 Methylethyl acetate	2.5 – 10%	Flam. Liq. 3, H226	R10
Index No: 601-022-00-9 CAS No: 1330-20-7 EC No: 215-535-7 Registration No: 01-2119488216-32-XXXX	[1] xylene (Mixture of Isomers)	2.5 – 12.5%	Acute Tox. 4 *, H312 – Acute Tox. 4 *, H332 Flam. Liq. 3, H226 – Skin Irrit. 2, H315	Xn Xi R10 R20/21 R38
CAS No: 96328-90-4 EC No: 692-819-0	Aromatic polyurethane Polymer	25 – 75%	Resp. Sens. 1, H334 – Skin Sens. 1, H317	Xi Xn R36/37/38 R20 R42/43

(*) The complete text of the R & H phrases is given in section 16 of this Safety Data Sheet.

*, ** See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

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

4. FIRST AID

DESCRIPTION OF FIRST AID MEASURES:

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

INHALATION:

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

EYE CONTACT:

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

SKIN CONTACT:

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

INGESTION:

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

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

Flammable product, the necessary prevention measures should be taken in order to avoid risks. In case of fire, the following measures are recommended:

EXTINGUISHING MEDIA:

Recommended extinguishing methods: Extinguisher 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. (Cont'd.....)



5. FIRE-FIGHTING MEASURES (..... Cont'd)

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.

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

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Eliminate possible ignition points and ventilate the area. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

ENVIRONMENTAL PRECAUTIONS: Prevent the contamination of drains, surface or subterranean waters and the ground.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pore the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

REFERENCE TO OTHER SECTIONS: For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

7. HANDLING AND STORAGE

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 antistatic footwear and clothing, and floors must be conductors.

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 & safety.

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

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 (SECSOIII)::

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
P5b	FLAMMABLE LIQUIDS	50	200

SPECIFIC END USE(S)

**8.EXPOSURE CONTROLS/PERSONAL PROTECTION****CONTROL PARAMETERS**

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	Mg/m ³
Ethylbenzene	100-41-4	European Union [1]	Eight hours	100 (skin)	442 (skin)
			Short term	200 (skin)	884 (skin)
		United Kingdom [2]	Eight hours	100	441
			Short term	125	552
2-methoxy-1-Methylethyl acetate	108-65-6	European Union [1]	Eight hours	50 (skin)	275 (skin)
			Short term	100 (skin)	550 (skin)
		United Kingdom [2]	Eight hours	500	274
			Short term	100	548
Xylene (Mixture of Isomers)	1330-20-7	European Union [1]	Eight hours	50 (skin)	221 (skin)
			Short term	100 (skin)	442 (skin)
		United Kingdom [2]	Eight hours	500	220
			Short term	100	441

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[2] According Limit Value (IOEVL) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
Ethylbenzene N.CAS: 100-41-4 N.CE: 202-849-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m ³)
2-methoxy-1-methylethyl acetate N. CAS: 108-65-6 N. CE: 203-603-9	DNEL (Workers)	Inhalation, Long-term, Systemic effects	275 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	33 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	153,5 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	54,8 (mg/kg be/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	1,67 (mg/kg bw/day)
Xylene (Mixture of isomers) N. CAS: 1330-20-7 N. CE: 215-535-7	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m ³)

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
2-methoxy-1-methylethyl acetate N. CAS: 108-65-6 N. CE: 203-603-9	Aqua (freshwater)	0,635 (mg/L)
	Aqua (marine water)	0,0635 (mg/L)
	Aqua (intermittent releases)	6,35 (mg/L)
	PNEC STP	100 (mg/L)
	Sediment (freshwater)	3,29 (mg/kg sediment dw)
	Sediment (marine water)	0,329 (mg/kg sediment dw)
	Soil	0,29 (mg/kg soil dw)

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

EXPOSURE CONTROLS

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

(cont'd)

8.EXPOSURE CONTROLS/PERSONAL PROTECTION (..... Cont'd)

Concentration:	100%	
Uses:	Coating	
Breathing Protection:		
PPE: Characteristics: CEN Standards: Maintenance Observations:	Filter mask for protection against gases and particles. <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. EN 136, EN 140, EN 405 Should not be stored in places exposed to high temperatures and damp environments before used. Special attention should be paid to the stated of the inhalation and exhalation valves in the face adaptor. 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: Characteristics: CEN Standards: Maintenance: Observations: Material:	Protective gloves against chemicals. <CE> marking, category III. EN 374-1, EN 374-2, EN374-3, EN 420 Keep in a dry place, away from any 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. Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands. PVC (polyvinyl chloride) Breakthrough time > 480min. Material thickness – 0.35mm	
Eye protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	Protective goggles with built-in frame. <CE> marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour. EN 165, EN 166, EN 167, EN 168 Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping, etc.	
Skin protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	Anti-static protective clothing <CE> marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements. EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5 In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer. The protective clothing should offer a level of comfort in line with the level of protection provided in terms of hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.	
Footwear:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	Anti-static safety footwear. <CE> marking, category II. EN ISO 13287, EN ISO 20344, EN ISO 20346 The footwear should be checked regularly. 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
INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid with characteristic colour
Colour:	Depending on pigmentation
Odour:	Solvent
Odour threshold:	N.A./N.A.
pH:	n.a.
Melting Point:	n..d. °C
Boiling Point:	238 °C
Flash Point:	45 °C
Evaporation rate:	nd
Inflammability (solid, gas):	Flammable
Lower Explosive Limit:	n.d.
Upper Explosive Limit:	N.A./N.A.

Vapour pressure:	nd
Vapour density:	nd
Relative density:	1,3 g/cm ³
Solubility:	Organic solvents
Liposolubility:	nd
Hydrosolubility:	Not soluble
Partition coefficient (n-octanol/water):	nd
Auto-ignition temperature:	N.A./N.A.
Decomposition temperature:	N.A./N.A.
Viscosity:	5000-10000 cps 25°C
Explosive properties:	Non explosive
Oxidising properties:	Non oxidant

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

(Cont'd.....)



9. PHYSICAL AND CHEMICAL PROPERTIES (..... Cont'd)

OTHER INFORMATION

Volatile organic compound (VOC)
Product Subcategory: One-pack performance coatings, solvent-borne
Phase I* (from 01/01/2007): 600 g/l
Phase II* (from 01/01/2010): 500g/l
(*) g/l ready to use
VOC content (p/p): 15 %
VOC content: 184 g/l
Pour point: n.d.
Blink: n.d.
Kinematic viscosity: nd

10. STABILITY/REACTIVITY

REACTIVITY: If the storage conditions are satisfied, does not product dangerous reaction.
CHEMICAL STABILITY: Stable under the recommended handling and storage conditions (see section 7)
POSSIBILITY OF HAZARDOUS REACTIONS. Flammable liquid and vapour.
CONDITIONS TO AVOID: Avoid the following conditions: High temperature. Static discharge. Contact with incompatible materials. Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.
IMCOMPATIBLE MATERIALS: Avoid the following materials: Explosive materials. Toxic materials, Oxidizing materials.
HAZARDOUS DECOMPOSITION PRODUCTS: In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

11. TOXICOLOGICAL INFORMATION

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 contact dermatitis and absorption of the product through the skin.
Exposure to concentrations of solvent fumes above the work exposure limit can have negative effects (for example, irritation of the mucous membranes and respiratory system, adverse effects on the kidneys, liver and the central nervous system). Among the symptoms are headaches, vertigo, fatigue, muscular weakness, drowsiness and in extreme cases, unconsciousness.
Splatters in the eyes can cause irritation and reversible damage.
Based on the properties of isocyanates and taking into account existing technical data on similar products, it appears that this product may cause irritation and / or acute awareness of the respiratory system, leading to an asthmatic condition, a wheezing and chest pressure. Therefore, sensitised individuals may show asthmatic symptoms when exposed to atmospheres containing concentrations below the level of exposure. Repeated exposure can lead to chronic respiratory diseases.

Toxicological information about the substances present in the composition.

Table with 5 columns: Name, Type, Test, Kind, Value. Row 1: Xylene (mixture of isomers), Oral, LD50, Rat, 4300 (mg/kg bw). Row 2: CAS No: 1330-20-7, Dermal, LD50, Rabbit, >1700 (mg/kg bw). Row 3: EC No: 215-535-7, Inhalation, LC50, Rat, 21,7 (mg/1/4 h)

- a) Acute toxicity: Not conclusive data for classification.
b) Irritation: Based on available data, the classification criteria are not met.
c) Corrosivity: Not conclusive data for classification.
d) Sensitisation: Product classified: Respiratory sensitiser, Category 1: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitiser: Category 1: May cause allergic skin reaction.
e) Repeated dose toxicity: Not conclusive data for classification.

(cont'd.....)

11. TOXICOLOGICAL INFORMATION (..... Cont'd)

- f) Carcinogenicity: Not conclusive data for classification.
g) Mutagenicity: Not conclusive data for classification.
h) Toxicity for reproduction: Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

TOXICITY

Name	Ecotoxicity			
	Type	Test	Kind	Value
Xylene (mixture of isomers) CAS No: 1330-20-7 EC No: 215-535-7	Fish	LC50	Fish	15,7 (mg/l)
	Aquatic invertebrates	LC50	Crustacean	8,5 (mg/l)
	Aquatic plants			

- PERSISTENCE & DEGRADABILITY:** No information is available about persistence and degradability of the product.
- BIOACCUMULATIVE POTENTIAL:** No information is available regarding the bioaccumulation of the substances present.
- 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.
- RESULTS OF PBT AND VPVB ASSESSMENT** No information is available about the results of PBT and VPVB assessment of the product.
- OTHER ADVERSE EFFECTS** No information is available about other adverse effects for the environment.

13. DISPOSAL CONSIDERATIONS

- WASTE TREATMENT METHODS:** Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
Follow the provisions of Directive 2008/98/EC regarding waste management.

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 lading

AIR

- Transport by plane: ICAO/IATA
Transport documentation: Airway bill.

UN NUMBER

UN No: UN1866

UN PROPER SHIPPING NAME

Description: UN 1866 RESIN SOLUTION, 3, PG III, (D/E)

TRANSPORT HAZARD CLASS(ES)

Class(es): 3

PACKING GROUP

Packing Group: III

ENVIRONMENTAL HAZARDS:

Marine pollutant: No

SPECIAL PRECAUTIONS FOR USER

Labels: 3



Hazard number: 30
ADR LQ: 5 L

(cont'd)



14. TRANSPORT INFORMATION (.....cont'd)

Transport by ship, FEm – Emergency sheets (F – Fire, S – Spills): F-E,S-E
Proceed in accordance with point 6

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

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 9 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.

The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

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 of biocidal products.

The product is not affected by the procedure established Regulation (EN) No 649/2012, concerning the export and import of dangerous chemicals.

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

R10	Flammable
R1	Highly flammable
R20	Harmful by inhalation
R38	Irritating to skin
R20/21	Harmful to inhalation and in contact with skin
R36/37/38	Irritating to eyes, respiratory system and skin
R42/43	May cause sensitisation by inhalation and skin contact

COMPLETE TEXT OF THE H PHRASES THAT APPEAR IN SECTION 3

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation
H360D	May damage the unborn child

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

DISCLAIMER

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.