



## SAFETY DATA SHEET

### ORION ECO SOLUTIONS TOUCH SHIELD

26/3/2018, edition 3, version 4

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

##### 1.1. Product identifier

Product name                      OES TOUCH SHIELD

Product description              Intentional mixture of natural polymers and biocides in an aqueous solution.

Product uses                        Industrial product for coating multi-surfaces.

##### 1.2. Details of the supplier of the safety data sheet

**Company name:**      Orion Eco Solutions  
                                  Springfield House  
                                  Newgate, Wilmslow  
                                  Cheshire, SK9 5LL

**Tel:**                        +353 (87) 703 3502

**Fax:**

**Email:**                    tj@orionecosolutions.co.uk

##### 1.3. Emergency telephone number

**Emergency tel:**            +44 (0) 7551 758 433

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

Physical hazards                  Non hazardous

Health hazards                    Non hazardous

Environmental hazards          Non hazardous

**2.2 Label elements:**            Labelling according to Regulation (EC) No. 1272/2008 (CLP) not required.

#### SECTION 3: Composition/information on ingredients

3.1. Substances  
Not available

## 3.2. Mixtures Hazardous components within the meaning of the CLP regulation and related classification:

Quantity	Name	Ident. Number	Classification
3% - 5%	propan-2-ol	Index number: 603-117-00-0	2.6/2 Flam. Liq
		CAS: 67-63-0	2 H225 3.3/2
		EC: 200-661-7	Eye Irrit. 2 H319
		REACH No.: 01-2119457558-25	3.8/3 STOT SE 3 H336
0.01% 0.05%	1,2-benzisothiazol-3(2H)-one	Index number: 613-088-00-6	3.2/2 Skin Irrit
		CAS: 2634-33-5	2 H315 3
		EC: 220-120-9	3/1 Eye Dam. 1 H318
			3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317
			4.1/A1 Aquatic Acute 1 H400
			3.1/4/Oral Acute Tox. 4 H302
< 0.6ppm	Zinc Omadine	CAS: 13463-41-7 EC: 236-671-3	3.3/2 Eye Irrit. 1: H318, 3.2/2 Skin Irrit. 2:H315 4.1/C2 Aquatic Chronic 3:H412

**SECTION 4: First aid measures****4.1. Description of first aid measures**

Skin contact                      Wipe off excess with paper towel. Do not use solvents. Wash with soap and water.

Ingestion                          Wash out mouth thoroughly with water. In severe cases seek medical advice

Eye contact                        Flush with clean water for 10 minutes. If irritation persists seek medical advice.

**SECTION 5: Firefighting measures**

Non flammable.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8. 7.1.

Precautions for safe handling

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: inert absorbing material.

**6.3. Methods and material for containment and cleaning up**

Stop the leak or spill and use inert absorbent material to surround the contaminated area. Collect and dispose in line with current laws and norms. Do not pour into drains.

**6.4. Reference to other sections**

See also section 8 and 13

**SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Do not eat or drink while working. Do not smoke. Avoid contact with skin and eyes, inhalation of vapours and mists. Avoid contemporary handling of any incompatible materials (see section 10). Don't use empty container before they have been cleaned. Wash hands thoroughly after shift. See also section 8 for recommended protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place at a temperature between +5/40°C. Keep away from food, drink and feed. Incompatible materials: None in particular. See also section 10. Instructions as regards storage premises: Adequately ventilated premises.

### 7.3. Specific end use(s)

None in particular, except those listed in paragraph 1.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

Source: GESTIS International Limit Values

Database propan-2-ol - CAS: 67-63-0 ACGIH -  
TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4,  
BEI - Eye and URT irr, CNS impair TLV-ACGIH -  
TWA: 492 mg/m<sup>3</sup>, 200 ppm - STEL: 983 mg/m<sup>3</sup>,  
400 ppm

United Kingdom - TWA: 999 mg/m<sup>3</sup>, 400 ppm -  
STEL: 1250 mg/m<sup>3</sup>, 500 ppm

#### DNEL Exposure Limit Values

propan-2-ol - CAS: 67-63-0 Consumer: 26 mg/kg -  
Exposure: Human Oral - Frequency: Long Term,  
systemic effects

Worker Industry: 500 mg/m - Consumer: 89 mg/m -  
Exposure: Human Inhalation - Frequency: Long  
Term, systemic effects

Worker Industry: 888 mg/kg - Consumer: 319 mg/kg  
- Exposure: Human Dermal - Frequency: Long  
Term, systemic effects

#### PNEC Exposure Limit Values

propan-2-ol - CAS: 67-63-0

Target: Microorganisms in sewage treatments -  
Value: 2251 mg/l

Target: Fresh Water - Value: 140.9 mg/l

Target: Freshwater sediments - Value: 552 mg/kg

Target: Marine water - Value: 140.9 mg/l

Target: Marine water sediments - Value: 552 mg/kg

Target: Soil (agricultural) - Value: 28 mg/kg

Target: Food chain - Value: 160 mg/kg - Type of  
hazard: Secondary poisoning

#### Biological Exposure Index

propan-2-ol - CAS: 67-63-0

Value: 25 mg/L - Biological Indicator: Acetone in  
urine - Sampling Period: End of turn (TRGS 903)

Value: 25 mg/L - medium: Blood - Biological  
Indicator: Acetone - Sampling Period: End of turn  
(TRGS 903)

### 8.2. Exposure controls

Good ventilation is generally sufficient for most operations. In case of insufficient ventilation use a localized aspiration system. Personal protective equipment, if adopted, must be CE marked, showing that it complies with applicable standards.

Adopt good working practices. Avoid prolonged or unnecessary contact with the products.

#### Individual protection measures

Use in well-ventilated areas. Do not get in eyes and on skin. Follow all reasonable precautionary measures when handling chemicals. Adopt a correct personal hygiene. Do not consume or store food in the work areas. Wash hands before smoking or eating. Eye protection: Not needed for normal use. Anyway, operate according good working practices. Protection for skin: No special precaution must be adopted for normal use. Protection for hands: Use protective gloves (EN 374)  
Respiratory protection: Not needed for normal use.  
Thermal Hazards: None

#### Environmental exposure controls:

None

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	fluid		
	yellowish	UNI EN ISO 15528:2003 (3.11+6.7)/UNI EN ISO 1513:1996	
Odour:	light		
Odour threshold:	Not available		
pH:	7.5 ± 1 (1:10)	UNI EN 1245:2011	
Melting point / freezing point:	0 °C	Expert judgement	
Initial boiling point and boiling range:	100 °C	Expert judgement	
Flash point:	Not Relevant*		
Evaporation rate:	Not Relevant*		
Solid/gas flammability:	Not Relevant*		
Upper/lower flammability or explosive limits:	Not Relevant*		
Vapour pressure:	Not Relevant*		
Vapour density:	Not Relevant*		
Relative density:	1.01 ± 0.05 g/cm <sup>3</sup>	UNI EN ISO 2811-1	
Solubility in water:	miscible	(1:10) water	
Solubility in oil:	not miscible in organic solvents	Expert judgement	
Partition coefficient (n-octanol/water):	Not Relevant*		
Auto-ignition temperature:	Not Relevant*		
Decomposition temperature:	Not Relevant*		

Viscosity:	Not available		
Explosive properties:	Not Relevant*		
Oxidizing properties:	Not Relevant*		

\*Data not applicable or not relevant due to the nature of the product and / or on account of its chemical composition

## 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not available		
Fat Solubility:	Not available		
Conductivity:	Not available		
Substance Groups relevant properties	Not available		

## SECTION 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

None in particular in the normal conditions of use.

### 10.4. Conditions to avoid

The product is stable under normal storage/use conditions.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

May produce toxic and noxious fumes in case of fire.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

Further information Inhalation: may cause drowsiness and headaches. The product may cause allergic reactions in sensitive persons.

### Toxicological information of the product:

a) acute toxicity

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

b) skin corrosion/irritation

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

c) serious eye damage/irritation

Not classified Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified Based on available data, the classification criteria are not met

**Toxicological information of the main substances found in the product:**

propan-2-ol - CAS: 67-63-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5840 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 13900 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 25000 mg/m<sup>3</sup> - Duration: 6h

1,2-benzisothiazol-3(2H)-one - CAS: 2634-33-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 670 mg/kg

Further information

None in particular.

**SECTION 12: Ecological Information**

**12.1. Toxicity**

Adopt sound working practices, so that the product is not released into the environment. Not classified for environmental hazards Based on available data, the classification criteria are not met 1,2-benzisothiazol-3(2H)-one - CAS: 2634-33-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 8 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss (OECD 203) Endpoint: EC50 -

Species: Daphnia = 15 mg/l - Duration h: 48 - Notes: Daphnia magna (OECD 202) Endpoint: EC50 - Species: Algae =

0.6 mg/l - Duration h: 72 - Notes: Selenastrum Capricornutum (OECD 201)

**12.2. Persistence and degradability**

None Not available

**12.3. Bioaccumulative potential**

Not available

**12.4. Mobility in soil**

Not available

**12.5. Results of PBT and vPvB assessment vPvB Substances:**

None - PBT Substances: None

**12.6. Other adverse effects**

None

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

**SECTION 14: Transport information**

General                      The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions:-

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1

None

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture. Based on information we have, a Chemical Safety Assessment, if expected, has been carried out for the substances in the mixture by the manufacturer or the importer.

In accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (as amended) the product is not classified.

**SECTION 16: Other information**

Text of phrases referred to under heading 3:

H225 Highly flammable liquid and vapour.



## OES TOUCH SHIELD

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H302 Harmful if swallowed.

This document was prepared by a competent person who has received appropriate training.

### Further information

This product must be kept, handled and used in accordance with health and safety regulations, sound industrial practice and conforming to the laws in force.

The workers must have appropriate training on the above.

The information given is based on our present knowledge, at the time of sending the data sheet and only serves for describing the product for security reasons, without guaranteeing specific properties.

Due to the various uses of our product and for factors not dependent on us, no responsibility is accepted for the use of this information.

Please keep your records up to date and make this sheet available to all relevant personnel.

This safety sheet cancels and substitutes any other previous issue.