

# Safety Data Sheet

## Oxyran One Coat 0472

Replaces date: 11/07/2016

Revision date: 22/12/2016

Version: 11.0.0

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

#### 1.1. Product identifier

Trade name: Oxyran One Coat 0472

#### Article no

Article no	Description
0472	

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

Recommended uses: Coating of steel.

Inadvisable uses: The product is recommended for only the above described uses.

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

##### Supplier

Company: Esbjerg Farve- & Lakfabrik A/S

Address: Energivej 13

Zip code: DK-6700

City: Esbjerg

Country: DENMARK

E-mail: info@esbjergpaints.dk

Phone: 0045 75 12 86 00

Fax: 0045 75 45 33 68

Homepage: www.esbjergpaints.dk

#### 1.4. Emergency Telephone Number

GB: +44 1215074123 (Advice and guidance ) (Around the clock)

### SECTION 2: Hazards identification

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

CLP-classification: Flam. Liq. 3;H226 STOT SE 3;H336 Aquatic Chronic 2;H411

Most serious harmful effects: Flammable liquid and vapour. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Pictograms



Signal word: Warning

##### Contains

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**Substance:** n-butyl acetate

### H-phrases

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

### P-phrases

P273 Avoid release to the environment.  
P403+233 Store in a well-ventilated place. Keep container tightly closed.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours/spray.  
P280 Wear protective gloves.

### Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

The product does not contain any PBT or vPvB substances.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
n-butyl acetate	123-86-4	204-658-1	01-2119485493-29	25 - 50%		Flam. Liq. 3;H226 STOT SE 3;H336
Xylene	1330-20-7	215-535-7	01-2119488216-32	2.5 - 10%		Flam. Liq. 3;H226 Acute Tox. 4;H312 Skin Irrit. 2;H315 Acute Tox. 4;H332
ethylbenzene	100-41-4	202-849-4	01-2119489370-35	2.5 - 10%		Flam. Liq. 2;H225 Asp. Tox. 1;H304 Acute Tox. 4;H332 STOT RE 2;H373
trizinc bis (orthophosphate)	7779-90-0	231-944-3	01-2119485044-40	2 - 2.4%		Aquatic Acute 1;H400 Aquatic Chronic 1;H410

Please see section 16 for the full text of H-phrases.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:** If patient feels unwell move to fresh air and keep under surveillance. If the victim is unconscious, ascertain whether the victim is breathing. If breathing has stopped, apply artificial respiration. If the victim is unconscious but breathing, place in the recovery position and keep warm with blankets. Call for medical attention or ambulance.

**Ingestion:** Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately!

**Skin contact:** Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Do not use solvents.

**Eye contact:** Flush immediately with lukewarm water (preferably using eye wash equipment) for at least 15 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.

**General:** If in doubt, seek medical advice. Also see para. 1

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

Pain in the eyes, redness, tears, swollen eyelids, itching Headache, dizziness, drowsiness and nausea.

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

Seek medical advice in case of discomfort. Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Fire can be extinguished with carbon dioxide, powder, foam or water spray.

**Unsuitable extinguishing media:** Do not use a direct water jet that could spread the fire.

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

Avoid inhaling of waste gases. Combustion will generate harmful gases, as combustion residues and carbon monoxide.

### 5.3. Advice for fire-fighters

Cool closed containers with water. Fire will produce a thick black smoke. Products of combustion are harmful and respiratory protection is required.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel:** Avoid inhalation of vapours. Remove all ignition sources and ensure sufficient ventilation.

**For emergency responders:** Use nitrile protection gloves and self-contained breathing apparatus.

### 6.2. Environmental precautions

Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

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

Prevent major quantities of spillage from being discharged into the sewage system or water by banking the spillage with sand or the like and collecting it. Clean the contaminated area with a suitable cleaning agent, but do not use solvent.

### 6.4. Reference to other sections

Also see item 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

The product may be charged electrostatically. Always use underground wire when transferring from one container to another. Personnel should wear antistatic shoes and clothing. Floors should be conductive. Do not use tools which may produce sparks. Avoid contact with eyes and skin. Avoid inhaling vapors and spray mists. Vapors may form explosive mixtures with air. Prevent the formation of flammable or explosive mixtures. Do not use this material near naked flames or any other ignition source. Electrical installations must be protected according to regulations.

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

The product must be kept away from children. Store in a tightly closed container and in accordance with the current regulations in a dry and well-ventilated place away from food. Keep away from ignition sources, oxidizing agents and strong acidic and basic substances. No smoking and use of open fire. No admittance to unauthorized persons. Opened containers must be carefully closed and stored upright to prevent any leakage.

### 7.3. Specific end use(s)

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Applications is mentioned in item 1.2.

**Other Information:** Smoking and the consumption of food and drink are not permitted in work rooms. Personal protective equipment: Refer to section 8.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limit

Substance name	Time period	ppm	mg/m <sup>3</sup>	fiber/cm <sup>3</sup>	Comments	Remarks
n-butyl acetate	8h	150	724			
n-butyl acetate	15m	200	966			
ethylbenzene	8h	100	441			Sk
ethylbenzene	15m	125	552			Sk
Xylene	8h	50	220			BMGV
Xylene	15m	100	441			BMGV

BMGV = Biological monitoring may be appropriate and Biological Monitoring Guidance Value is listed in Table 3 (Occupational Exposure Limits)

Sk = Can be absorbed through skin

**Legal basis:** EH40/2005 Workplace exposure limits incl. supplement from October 2007.

#### PNEC

n-butyl acetate, cas-no 123-86-4				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater - sediment	0,981 mg/kg			
Marine water - sediment	0,0981 mg/kg			
Soil	0,0903 mg/kg			
Marine water	0,018 mg/l			
Freshwater	0,18 mg/l			
ethylbenzene, cas-no 100-41-4				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,1 mg/l			
Marine water	0,01 mg/l			
Freshwater - sediment	13,7 mg/kg			
Soil	2,68 mg/kg			
Xylene, cas-no 1330-20-7				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Soil	2,31 mg/kg			
Freshwater	0,327 mg/l			
Marine water	0,327 mg/l			
Freshwater - sediment	12,64 mg/kg			
Marine water - sediment	12,64 mg/kg			
trizinc bis(orthophosphate), cas-no 7779-90-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	20,6 µg/l			
Marine water	6,1 µg/l			
Freshwater - sediment	117,8 mg/kg			
Marine water - sediment	56,5 mg/kg			
Soil	35,6 mg/kg			

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### DNEL - workers

n-butyl acetate, cas-no 123-86-4					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	960 mg/m <sup>3</sup>	Acute / short-term exposure		Local effects	
Dermal	7 ng/kg bw/day	Long-term exposure		Systemic effects	
ethylbenzene, cas-no 100-41-4					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	180 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	77 mg/m <sup>3</sup>	Long-term exposure		Systemic effects	
Inhalation	293 mg/m <sup>3</sup>	Acute / short-term exposure		Local effects	
Xylene, cas-no 1330-20-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	221 mg/m <sup>3</sup>	Long-term exposure		Local effects	
Inhalation	442 mg/m <sup>3</sup>	Acute / short-term exposure		Systemic effects	
Inhalation	289 mg/m <sup>3</sup>	Acute / short-term exposure		Local effects	
Dermal	180 mg/kg bw/day	Long-term exposure		Systemic effects	
trizinc bis(orthophosphate), cas-no 7779-90-0					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	5 mg/m <sup>3</sup>	Long-term exposure		Systemic effects	
Dermal	83 mg/kg bw/day	Long-term exposure		Systemic effects	

**Biological threshold values:** See above.

**Other Information:** See above.

### 8.2. Exposure controls

**Appropriate engineering controls:** All work must be planned with a view to limit the breathing of fumes and the exposure to the skin. Work under effective process ventilation (e.g. local exhaust ventilation). If this is not possible, use respiratory protection.

**Personal protective equipment, eye/face protection:** Use suitable protective goggles or full face mask for protection against splashes.

**Personal protective equipment, skin protection:** If possible, wear special work clothes. When spraying wear coveralls.

**Personal protective equipment, hand protection:** Use nitrile protection gloves. A 15-mil thickness glove provides a one-hour breakthrough-time. Follow the glove manufacturer's recommendations on use and replacement.

**Personal protective equipment, respiratory protection:** Wear a breathing apparatus.

**Environmental exposure controls:** It must be ensured that local regulations for discharge are met.

## SECTION 9: Physical and chemical properties

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

Parameter	Value/unit
State	Liquid

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Colour	Different.
Odour	Odour of organic solvent.
Solubility	Soluble in: Organic solvents.
Explosive properties	See explosive limits
Oxidising properties	No information available

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flash Point	> 23 °C	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	1 - 8	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	300 - 1200 mPas	
Odour threshold	No data	

### 9.2 Other information

Parameter	Value/unit	Remarks
Density	1.12 g/ml	
Fire class	II-1	
Weight % organic solvents	39	
VOC	437	

**Other Information:** Solubility in water: Insoluble in water. Fat solubility: irrelevant

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

See below.

### 10.2. Chemical stability

Stable under recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Ignitable at temperatures above the flash point. The fumes can ignite by e.g. a spark, a warm surface or a glow. The fumes can mix to explosive mixtures with air. At room temperature the fumes are more heavily than air and can spread along the floor.

### 10.4. Conditions to avoid

Stable at normal temperature. When exposed to high temperatures, toxic decomposition products may be formed.

### 10.5. Incompatible materials

To prevent heat-generating reactions, keep the product away from oxidizing agents and strong acidic and basic substances.

### 10.6. Hazardous decomposition products

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carbon monoxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

##### n-butyl acetate, cas-no 123-86-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 14112mg/kg		OECD 402	
Rat	LD50		10760mg/kg		OECD 423	

##### ethylbenzene, cas-no 100-41-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		3500mg/kg bw			

##### Xylene, cas-no 1330-20-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 3500mg/kg bw			

##### trizinc bis(orthophosphate), cas-no 7779-90-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000mg/kg			

Ingestion of large quantities may cause gastrointestinal disorders.

##### Acute toxicity - dermal

##### ethylbenzene, cas-no 100-41-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		15.4mg/kg bw			

##### Xylene, cas-no 1330-20-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		12126 mg/kg bw			

Organic solvents have a degreasing effect on the skin. Organic solvents may be absorbed through skin.

##### Acute toxicity - inhalation

##### n-butyl acetate, cas-no 123-86-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	23.4mg/l		OECD 403	

##### ethylbenzene, cas-no 100-41-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	4 h	17.2mg/l			

##### Xylene, cas-no 1330-20-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 LC50 (vapour)	4 h	6300 ppmV			

##### trizinc bis(orthophosphate), cas-no 7779-90-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4 h	> 5.7mg/l			

Inhalation of vapors may cause symptoms of poisoning such as memory and concentration difficulties, abnormal tiredness, irritability and, in extreme cases, unconsciousness. Protracted inhalation in high concentrations may cause permanent damage to the central nervous system.

**Skin corrosion/irritation:** Prolonged or repeated skin contact will degrease skin and may cause irritation.

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<b>Serious eye damage/eye irritation:</b>	Splashing into eyes may cause smarting/irritation.
<b>Germ cell mutagenicity:</b>	Would not be expected germ cell mutagen
<b>Carcinogenic properties:</b>	No data.
<b>Reproductive toxicity:</b>	Would not be expected to be a reproductive toxicant.
<b>Single STOT exposure:</b>	May cause drowsiness or dizziness.
<b>Repeated STOT exposure:</b>	No data
<b>Aspiration hazard:</b>	Test data are not available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### n-butyl acetate, cas-no 123-86-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute daphnia	Daphnia magna	48 h	EC50	44mg/l			
Acute fish	#Not translated#	96 h	EC50	44mg/l		OECD 203	
Acute algae		72 h	EC50	647.7mg/l			

##### ethylbenzene, cas-no 100-41-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute daphnia	Daphnia magna	48 h	EC50	2.4mg/l			
Acute fish	Pseudokirchneriella subcapitata	72 h	LC50	4.6mg/l			

##### Xylene, cas-no 1330-20-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute algae	Pseudokirchneriella subcapitata	72 h	EC50	2.2mg/l		OECD 201	
Acute Daphnia	Daphnia magna	24 h	IC50	1mg/l		OECD 202	
Acute fish	Oncorhynchus mykiss	96 h	LC50	2.6mg/l		OECD 203	

##### trizinc bis(orthophosphate), cas-no 7779-90-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Oncorhynchus mykiss	96 h	LC50	6.3 mg/l			
Acute Daphnia	Daphnia magna	48 h	EC50	63.1 mg/l			
Acute algae	Desmodesmus subspicatus	72 h	EC50	91.2 mg/l			

#### 12.2. Persistence and degradability

##### n-butyl acetate, cas-no 123-86-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d	BOD	83%		BOD:ThOD	

No information available



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### 12.3. Bioaccumulative potential

No information available

### 12.4. Mobility in soil

The product is insoluble in water and will spread out on the surface.

### 12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

No information available

### Other Information

Do not dispose of this product in drains, watercourses, or on the ground. This product is classified as hazardous to the environment according to the calculation method. Please see par. 2 and 3 for further information.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Avoid release to the environment.

Waste receptacles must be labeled with black text on yellow background: "Contains a substance which is affected by the Danish work environmental legislation, on account of a risk of cancer".

Category of waste: Waste-code: 08 01 11

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Hazard identification number:	30	Tunnel restriction code:	D/E

### Inland water ways transport (ADN)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Transport in tank vessels:			

### Sea transport (IMDG)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	3	Environmental Hazardous Substance Name(s):	
Hazard label(s):	3		
EmS:	F-E, S-E	IMDG Code segregation group:	- None -

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### Air transport (ICAO-TI / IATA-DGR)

<b>14.1. UN-No.:</b>	1263	<b>14.4. Packing group:</b>	III
<b>14.2. UN proper shipping name:</b>	PAINT	<b>14.5. Environmental hazards:</b>	
<b>14.3. Transport hazard class(es):</b>	3		
<b>Hazard label(s):</b>	3		

### 14.6. Special precautions for user

Irrelevant.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Irrelevant.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Special Provisions:**

### 15.2. Chemical Safety Assessment

**Other Information:** Chemical safety assessment has not been performed.

## SECTION 16: Other information

### Version history and indication of changes

Version	Revision date	Responsible	Changes
11.0.0	22/12/2016	GK	11, 12
10.0.0	11/07/2016	GK	2, 3, 9, 13, 14

**Abbreviations:** DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration.

**References to literature and data sources:** REACH: REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals. CLP: REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures.

**Other Information:** The information in this Material Safety Data Sheet is based upon our knowledge and on European Union legislation. The user's working conditions are outside our control. It is the responsibility of the users to fulfil the requirements set by National Legislation. The information is no guarantee of the properties of the product. The Material Safety Data Sheet may only be reproduced with the permission of the manufacturer.

**Training advice:** The instructions in this Material Safety Data Sheet are given on the assumption that the product is used as stated in item 1. Restrictions of use and special training requirements must also be complied with. The information in this Material Safety Data Sheet should be regarded as a description of the safety issues concerning the product.

### List of relevant H-statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.

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H315	Causes skin irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**Document language:** GB