

## SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

### R-M ONYX HD FactPack AU2820 Pearl>5 12L Steel drums

Version	Revision Date:	SDS Number:	Date of last issue: 21.01.2025
3.0	12.03.2025	00000000050282 238	Date of first issue: 04.10.2023

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

### 1.1 Product identifier

Trade name : R-M ONYX HD FactPack AU2820 Pearl>5 12L Steel drums

Product code : 00000000050282238

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

Use of the : Spraying

Substance/Mixture : Coatings and related products

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

**Company:**

BASF Coatings France SAS  
Z.I de Breuil-Le-Sec, Rue André Pommery  
60480 Breuil-Le-Sec  
France

**Contact address:**

BASF plc  
4th and 5th Floors, 2 Stockport Exchange  
Railway Road, Stockport, SK1 3GG  
United Kingdom

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Telephone: +44 161 475 3000

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E-mail address: [product-safety-uk-and-ireland@basf.com](mailto:product-safety-uk-and-ireland@basf.com)

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#### 1.4 Emergency telephone

International emergency number:  
Telephone: +49 180 2273-112

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

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#### 2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal Word : Warning

Hazard Statements :

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing mist or vapors.

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P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Hazardous ingredients which must be listed on the label:

2,4,7,9-Tetramethyldec-5-yne-4,7-diol

1,2-Benzisothiazol-3(2H)-on

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : polyurethane  
organic solvent  
Water  
fillers

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-butoxyethanol	111-76-2	Acute Tox. 4;	>= 10 - < 12.5

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	203-905-0	H302	
	603-014-00-0	Acute Tox. 4;	
	UK-20-	H332	
	9702550300-0-	Skin Irrit. 2; H315	
	0000	Eye Irrit. 2; H319	
	UK-20-		
	0537843089-5-		
	0000		
	UK-20-		
	9642318150-0-		
	0000		
butan-2-ol	78-92-2	Flam. Liq. 3; H226	>= 3 - < 5
	201-158-5	Eye Irrit. 2; H319	
	603-127-00-5	STOT SE 3; H336	
	UK-20-	(Central nervous system)	
	0537843089-5-		
	0000	STOT SE 3; H335	

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	UK-20-9642318150-0-0000	(Respiratory system)	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	126-86-3 204-809-1 UK-20-9702550300-0-0000 UK-20-0537843089-5-0000 UK-20-9642318150-0-0000	Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 1 - < 2
2-dimethylaminoethanol	108-01-0 203-542-8 603-047-00-0	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3;	>= 0.2 - < 0.3

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	UK-20- 0537843089-5- 0000	H331 Acute Tox. 4; H312	
	UK-20- 9642318150-0- 0000	Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	
		specific concentration limit STOT SE 3; H335 >= 5 %	

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3-(3- Isodecyloxypropylamino)propyla mine	72162-46-0 276-432-0 UK-20- 0537843089-5- 0000	Acute Tox. 3; H301  Skin Corr. 1A; H314  Aquatic Acute 1; H400  Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1  M-Factor (Chronic aquatic toxicity): 10	>= 0.1 - < 0.2
1,2-Benzisothiazol-3(2H)-on	2634-33-5 220-120-9	Acute Tox. 4; H302  Skin Irrit. 2; H315	>= 0.0025 - < 0.025

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613-088-00-6	Eye Dam. 1; H318
UK-20-9702550300-0-0000	Skin Sens. 1; H317
UK-20-0537843089-5-0000	Aquatic Acute 1; H400
	Aquatic Chronic 2; H411
	_____
	M-Factor (Acute aquatic toxicity): 1
	M-Factor (Chronic aquatic toxicity): 1
	_____
	specific concentration limit

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		Skin Sens. 1; H317  >= 0.05 %	
Substances with a workplace exposure limit :			
talc	14807-96-6  238-877-9  UK-20- 9702550300-0- 0000  UK-20- 0537843089-5- 0000		>= 7 - < 10

For explanation of abbreviations see section 16.

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#### SECTION 4: First aid measures

##### 4.1 Description of first-aid measures

- General advice : First aid personnel should pay attention to their own safety.  
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).  
Immediately remove contaminated clothing.  
In all cases of doubt, or when symptoms persist, seek medical attention.  
Move out of dangerous area.  
Never give anything by mouth to an unconscious person.
- If inhaled : If symptoms persist, call a physician.  
If breathed in, move person into fresh air.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : If symptoms persist, call a physician.

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Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Do NOT use solvents or thinners.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Call a physician immediately.

If easy to do, remove contact lens, if worn.

If swallowed : If symptoms persist, call a physician.

Do NOT induce vomiting.

Rinse mouth.

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

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Symptoms : Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

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

Treatment : No known specific antidote.  
Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray jet  
Dry powder

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Alcohol-resistant foam

Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire fighting : Hazardous decomposition products formed under fire conditions.

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

Further information : In the event of fire, cool tanks with water spray.  
Fire residues and contaminated fire extinguishing water

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must be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately.  
This must not be discharged into drains.

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#### SECTION 6: Accidental release measures

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

Personal precautions : Avoid breathing vapours.

Keep away from sources of ignition.

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

For non-emergency personnel:

For emergency responders:

Use personal protective equipment.

Ensure adequate ventilation, especially in confined areas.

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#### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Ensure adequate ventilation.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

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#### 6.4 Reference to other sections

For disposal considerations see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency

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shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Do not breathe vapors or spray mist.

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. The relevant fire protection measures should be noted. Use explosion-proof equipment. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal

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feedingstuffs.

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

Further information on storage conditions : Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Keep in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Packaging material : Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate), High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene

#### 7.3 Specific end use(s)

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Specific use(s) : Please refer to the technical leaflet for further information.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-butoxyethanol	111-76-2	TWA	25 ppm 123 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	50 ppm 246 mg/m <sup>3</sup>	GB EH40

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	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	20 ppm 98 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
talc	14807-96-6	TWA (Respirable dust)	1 mg/m <sup>3</sup>	GB EH40
butan-2-ol	78-92-2	TWA	100 ppm 308 mg/m <sup>3</sup>	GB EH40

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		STEL	150 ppm 462 mg/m <sup>3</sup>	GB EH40
2-dimethylaminoethanol	108-01-0	TWA	2 ppm 7.4 mg/m <sup>3</sup>	GB EH40
		STEL	6 ppm 22 mg/m <sup>3</sup>	GB EH40

**Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	butoxyacetic acid: 240 Millimoles per mole creatinine (Urine)	After shift	GB EH40 BAT

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#### 8.2 Exposure controls

##### Engineering measures

Ensure adequate ventilation.

##### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Required when there is a risk of eye contact.

Hand protection

Remarks : Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves

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should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Skin and body protection : chemical-resistant disposable coveralls

Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

Respiratory protection : Suitable respiratory equipment:

half-mask with A1P2 class combination filter

When workers are facing concentrations above the

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#### Protective measures

exposure limit they must use appropriate certified respirators.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

: Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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Appearance	:	liquid
Color	:	various
Odor	:	of glycol
pH	:	7.5 - 8.0
Melting point/ range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	> 61 °C
		Method: ISO 3679
Lower explosion limit / Lower flammability limit	:	> 35 g/m <sup>3</sup>

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Vapor pressure : (20 °C)  
not determined

(50 °C)  
not determined

Relative vapor density : Lighter than air.

Density : 1.036 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : not determined

Partition coefficient: n-  
octanol/water : not applicable for mixtures

Autoignition temperature : > 200 °C

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Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity  
Viscosity, kinematic : 97.3 mm<sup>2</sup>/s (23 °C)

(40 °C)

not determined

Flow time : > 72 s at 23 °C  
Cross section: 4 mm  
Method: ISO 2431

Explosive properties : Not explosive

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We create chemistry

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Oxidizing properties : The substance or mixture is not classified as oxidizing.

#### 9.2 Other information

Flammability (liquids) : Combustible liquid.

Self-heating substances : The substance or mixture is not classified as self heating.

Metal corrosion rate : Not corrosive to metals.

Particle size : The substance / product is marketed or used in a non solid or granular form.

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#### SECTION 10: Stability and reactivity

##### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

##### 10.2 Chemical stability

No decomposition if stored and applied as directed.

##### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form ignitable mixture with air.

##### 10.4 Conditions to avoid

Conditions to avoid : Avoid direct sunlight.  
Heat, flames and sparks.

##### 10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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#### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

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

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h

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Test atmosphere: vapor

Method: Calculation method

#### Components:

##### **2-butoxyethanol:**

Acute oral toxicity : LD50 (guinea pig): 1,200 mg/kg

##### **2-dimethylaminoethanol:**

Acute oral toxicity : LD50 (Rat): 1,183 mg/kg

Acute inhalation toxicity : LC50 (Rat): 6.1 mg/l  
Exposure time: 4 h

Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): 1,219 mg/kg

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#### **Skin corrosion/irritation**

Causes skin irritation.

#### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Respiratory or skin sensitization**

##### **Skin sensitization**

May cause an allergic skin reaction.

##### **Respiratory sensitization**

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 toxicity**

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **3-(3-Isodecyloxypropylamino)propylamine:**

M-Factor (Acute aquatic : 1  
toxicity)

M-Factor (Chronic aquatic : 10  
toxicity)

##### **1,2-Benzisothiazol-3(2H)-on:**

M-Factor (Acute aquatic : 1  
toxicity)

M-Factor (Chronic aquatic : 1  
toxicity)

### 12.2 Persistence and degradability

No data available

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#### 12.3 Bioaccumulative potential

##### Components:

##### **2-butoxyethanol:**

Partition coefficient: n- : log Pow: 0.81 (25 °C)  
octanol/water  
GLP: no

##### **butan-2-ol:**

Partition coefficient: n- : log Pow: 0.61  
octanol/water  
GLP: no

Remarks: Information taken from reference works and the literature.

##### **2,4,7,9-Tetramethyldec-5-yne-4,7-diol:**

Partition coefficient: n- : log Pow: 2.64  
octanol/water

##### **2-dimethylaminoethanol:**

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Partition coefficient: n-  
octanol/water : log Pow: -0.55 (23 °C)

#### **3-(3-Isodecyloxypropylamino)propylamine:**

Partition coefficient: n-  
octanol/water : log Pow: 2.7 (23 °C)

pH: 7.9 - 8.3

Method: OECD Test Guideline 107

GLP: no

#### **1,2-Benzisothiazol-3(2H)-on:**

Partition coefficient: n-  
octanol/water : log Pow: 0.7 (20 °C)

GLP: yes

#### **talc:**

Partition coefficient: n-  
octanol/water : log Pow: -9.4 (25 °C)

pH: 7

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GLP: no

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not discharge into drains/surface waters/groundwater.
- Observe national and local legal requirements.
- Contaminated packaging : Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC
- Packaging that is not properly emptied must be disposed of as the unused product.

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## SECTION 14: Transport information

### 14.1 UN number

- ADN : Not regulated as a dangerous good

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**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

**ADN** : Not regulated as a dangerous good

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

**ADN** : Not regulated as a dangerous good

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**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

#### 14.4 Packing group

**ADN** : Not regulated as a dangerous good

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA (Cargo)** : Not regulated as a dangerous good

**IATA (Passenger)** : Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

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#### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the following entries should be considered:  
Number on list 3

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

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Regulation (EC) on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) Not applicable

Volatile organic compounds : Volatile organic compounds (VOC) content: 420 g/l

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

Volatile organic compounds (VOC) content: 15.38 %

#### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999

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(requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

Details relating to the VOC Directive 2004/42/EC:

Subcategory as indicated in Annex IIB:

d

Limit value for maximum VOC content as specified in Annex IIB:

420 g/l

VOC content of the ready-for-use product according to ISO 11890-2:

419 g/l

#### 15.2 Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

#### SECTION 16: Other information

##### Full text of H-Statements

H226	:	Flammable liquid and vapor.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.

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- H312 : Harmful in contact with skin.
- H314 : Causes severe skin burns and eye damage.
- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H331 : Toxic if inhaled.
- H332 : Harmful if inhaled.
- H335 : May cause respiratory irritation.
- H336 : May cause drowsiness or dizziness.
- 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.
- H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

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Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitization
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	:	UK. Biological monitoring guidance values
2000/39/EC / TWA	:	Limit Value - eight hours

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2000/39/EC / STEL : Short term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration,

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Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

Other information : For multi-pack systems observe material safety data sheets of all components.  
Restricted to professional users.

#### Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 3	H412

#### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

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