



SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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Muc-Off Dark Energy Bicycle Chain Wax

Revision 0

Revision date 2025-10-02

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

1.1. Product identifier

Product name	Muc-Off Dark Energy Bicycle Chain Wax
Product Code	21542, 21543, 21544

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

Product Use	[SU21] Consumer uses: Private households (= general public = consumers); [PC24] Lubricants, greases, release products; [ERC2] Formulation of preparations; [AC1] Vehicles;
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1.3. Details of the supplier of the safety data sheet

Muc-Off Ltd
UK - Muc-Off Ltd, Unit 23 Branksome Business Park, Bourne Valley Road, Poole, Dorset, BH12 1DW
EU - Muc-Off Ltd, Unit 3D North Point House, North Point Business Park, New Mallow Road, Cork, Ireland, T23 AT2P Tel: +44(0)1202 307790 Email: info@muc-off.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111/NHS 24/NHS Direct		111 or 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	No Significant Hazard.
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2.2. Label elements

Hazard Statement	No Significant Hazard
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

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3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Alcohol ethoxylate with 6.5MEO		68439-46-3				Acute Tox. 4: H302; Eye Dam. 1: H318;
Water						
1,2-Benzisothiazol-3(2H)-one	613-088-00-6	2634-33-5	220-120-9			Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Acute 1: H400;
N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine		2372-82-9	219-145-8			Acute Tox. 3: H301; Skin Corr. 1B: H314; STOT RE 2: H373; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Aquatic Chronic 2: H411;
OCTADECAN-1-OL, ETHOXYLATED, <2.5 EO		9005-00-9	500-017-8			
Pyridine-2-thiol-1-oxide, sodium salt		3811-73-2	223-296-5			Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Potassium hydroxide	019-002-00-8	1310-58-3	215-181-3			Acute Tox. 4: H302; Skin Corr. 1A: H314;
diethylene imidoxide oleate		1095-66-5	214-139-1			Skin Irrit. 2: H315; Eye Irrit. 2: H319;
tetrasodium ethylene diamine tetraacetate. .	607-428-00-2	64-02-8	200-573-9			Acute Tox. 4: H302; Eye Dam. 1: H318;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

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

Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	May cause irritation to mucous membranes.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

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6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from food, drink and animal feedingstuffs. Keep away from sources of ignition - No smoking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL: Derived no-effect level.

Exposure Pattern - Workers

OCTADECAN-1-OL, ETHOXYLATED, <2.5 EO	Long-term - inhalation - Systemic effects	294 mg/m ³
	Long-term - dermal - Systemic effects	2080 mg/kg

Exposure Pattern - General population

OCTADECAN-1-OL, ETHOXYLATED, <2.5 EO	Long-term - inhalation - Systemic effects	87 mg/m ³	
	Long-term - dermal - Systemic effects	1250 mg/kg	Long-term - oral - Systemic effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
Eye / face protection	In case of splashing, wear:.. Approved safety goggles.
Skin protection - Handprotection	Wash hands after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	White/Milky
Odour	Mild
Odour threshold	No data available
pH	9 - 10
Melting point	Not applicable.
Freezing Point	0 °C
Initial boiling point	100 °C
Flash point	Not applicable.
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	0.973 (H ₂ O = 1 @ 20 °C)
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	8 sec. 3 mm (ISO 2431)
Explosive properties	Not applicable.
Oxidising properties	No data available
Solubility	Miscible in water

9.2. Other information

Surface tension	No data available
Gas group	No data available
Benzene Content	0 %
Lead content	0 %
VOC (Volatile organic compounds)	0 g/l
Conductivity	No data 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.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

11.1 Information on hazard classes

Acute toxicity	No data is available on this product.
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11.1 Information on hazard classes

Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	No data is available on this product.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
STOT-single exposure	No data is available on this product.
STOT-repeated exposure	No data is available on this product.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	No data is available on this product.

11.1.4. Toxicological Information

OCTADECAN-1-OL, ETHOXYLATED, <2.5 EO	Dermal Rat LD50: >2000mg/kg	Oral Rat LD50: >21000mg/kg
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SECTION 12: Ecological information

12.1. Toxicity

OCTADECAN-1-OL, ETHOXYLATED, <2.5 EO	Daphnia EC50/48h: 51 mg/l	Fish LC50/96h: 108 mg/l
	Brachydanio Rerio LC50/96h: 108mg/l	
	NOEC / EC10 for marine or freshwater organisms >0.3300 mg/l	EC50 for marine or freshwater organisms 140.0000 mg/l

12.2. Persistence and degradability

	No data is available on this product.
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12.3. Bioaccumulative potential

	No data is available on this product.
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Partition coefficient

	Muc-Off Dark Energy Bicycle Chain Wax No data available
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12.4. Mobility in soil

	No data is available on this product.
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12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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12.6 Endocrine disrupting properties

	None expected.
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SECTION 13: Disposal considerations

General information

	Dispose of in compliance with all local and national regulations.
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SECTION 14: Transport information

14.1. UN number

	The product is not classified as dangerous for carriage.
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14.2. UN proper shipping name

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14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7 Maritime Transport in bulk according to IMO instruments

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.
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15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information

Text of Hazard Statements in Section 3	<p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Eye Dam. 1: H318 - Causes serious eye damage.</p> <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> <p>Acute Tox. 3: H301 - Toxic if swallowed.</p> <p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.</p> <p>Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p> <p>Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.</p> <p>Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.</p>
Maximum content of VOC	0 g/l.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.