



SAFETY DATA SHEET

MUC-OFF DRIVETRAIN CLEANER
(According to OSHA HCS 29 CFR 1910.1200)

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Compilation date: 09/03/2015

Revision date: 21/08/2018

Revision No: 1

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

1.1. Product identifier

Product name: MUC-OFF DRIVETRAIN CLEANER

Product code: 20467US,20468US

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

Degreasing and cleaning of cycle chains and drivetrains.

1.3. Details of the supplier of the safety data sheet

Company name: Muc-Off Ltd
1st Floor, Unit 1 Concept Office Park
Innovation Close
Poole, Dorset
BH12 4QT, United Kingdom

Tel: +44 (0) 1202 307790

Email: info@muc-off.com

1.4. Emergency telephone number

Emergency tel: CHEMTREC: 1-800-424-9300 (24 hour)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

OSHA HCS 2012: Asp. Tox. Cat 1: H304, Eye Irrit. 2a: H319, Skin Irrit. 2: H315, Flamm. Liq. 4:

Most important adverse effects: May be fatal if swallowed and enters airways. Causes skin irritation.
Causes serious eye irritation.

2.2. Label elements

Label elements:

Hazard statements: H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.

[cont...]

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H319: Causes serious eye irritation
H227: Combustible Liquid

Hazard pictograms:



Signal words:

Danger

Precautionary statements:

P280: Wear protective gloves/eye protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/first aid.
P302+352: IF ON SKIN: Wash with plenty of water/soap.
P331: Do NOT induce vomiting.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes.
P337+313: If eye irritation persists: Get medical advice/attention.

2.3. Other hazards Remove contact lenses, if present and easy to do. Continue rinsing.

PBT:

This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

* Hazardous ingredients:

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS - REACH registered number(s): 01-2119456620-43-XXXX

EINECS	CAS	PBT / WEL	GHS Classification	Percent
926-141-6	64742-47-8	-	Flam. Liq. 4: H227, Asp. Tox. 1: H304, EUH066	>70%

BUTYL GLYCOL - REACH registered number(s): 01-2119475108-36

203-905-0	111-76-2	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	10-30%
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AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD, N,N-BIS(HYDROXYETHYL) - REACH registered number(s): 01-2119490100-53

EINECS	CAS	PBT / WEL	GHS Classification	Percent
931-329-6	68155-07-7	-	Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin	1-5%

Irrit. 2: H315

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor
Ingestion: Do not induce vomiting. Wash out mouth with water. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

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

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Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.
There may be soreness and redness of the mouth and throat.

Ingestion: There may be irritation of the throat with a feeling of tightness in the chest.

Inhalation: Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate/special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

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Section 8: Exposure controls/personal protection**8.1. Control parameters****Hazardous ingredients:****BUTYL GLYCOL****Workplace exposure limits:**

State	8 hour TWA	15 min. STEL	Respirable dust	
			8 hour TWA	15 min. STEL
UK	25ppm	50ppm	-	-

DNEL/PNEC Values**DNEL / PNEC** No data available.**8.2. Exposure controls****Engineering measures:** Ensure there is sufficient ventilation of the**Respiratory protection:** area. Respiratory protection not required.**Hand protection:** Protective gloves.**Eye protection:** Safety glasses. Ensure eye bath is to hand.**Skin protection:** Protective clothing.**Section 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

State:	Liquid
Colour:	Yellow
Odour:	Sweet-smelling
Evaporation rate:	Slow
Oxidising:	Not applicable
Solubility in water:	Miscible
Viscosity:	Non-viscous
Kinematic viscosity:	<20.5
Viscosity test method:	Kinematic viscosity in 10 ⁻⁶ m ² /s at 40°C (ISO 3219)
Boiling point/range°C:	190
Melting point/range°C:	Not applicable.
Flammability limits %:	lower: No data available upper: No data available
Flash point°C:	60-93°C
Part.coeff. n-octanol/water:	No data available
Autoflammability°C:	No data available
Vapour pressure:	No data available
Relative density:	0.835 typical

pH: Not applicable

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Other information: No data available.**Section 10: Stability and reactivity****10.1. Reactivity****Reactivity:** Stable under recommended transport or storage conditions.**10.2. Chemical stability****Chemical stability:** Stable under normal conditions.**10.3. Possibility of hazardous reactions****Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.**10.4. Conditions to avoid****Conditions to avoid:** Heat. Sources of ignition**10.5. Incompatible materials****Materials to avoid:** Strong oxidising agents. Strong acids.**10.6. Hazardous decomposition products****Haz. decomp. products:** In combustion emits toxic fumes.**Section 11: Toxicological information****11.1. Information on toxicological effects****Hazardous ingredients:****HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS**

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

BUTYL GLYCOL

IVN	RAT	LD50	307	mg/kg
ORAL	MUS	LD50	1230	mg/kg
ORAL	RAT	LD50	1746	mg/kg

AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD, N,N-BIS(HYDROXYETHYL)

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

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Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: Calculated
Serious eye damage/irritation	OPT	Hazardous: Calculated
Aspiration hazard		Hazardous: Calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be drowsiness or dizziness

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

BUTYL GLYCOL

DAPHNIA	48H EC50	1550	mg/l
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	1474	mg/l
ALGAE	72H ErC50	1840	mg/l

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

DAPHNIA MAGNA	48H EC50	>10	mg/l
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	>10	Mg/l

AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD, N,N-BIS(HYDROXYETHYL)

DAPHNIA	72H IC50	3.2	mg/l
FISH	96H LC50	2.4	mg/l
ALGAE	72H ErC50	3.9	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

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Page: 7**12.6. Other adverse effects****Other adverse effects:** Negligible ecotoxicity.**Section 13: Disposal considerations****13.1. Waste treatment methods** Transfer to a suitable container and arrange for collection by specialised disposal company.**Disposal operations:** The user's attention is drawn to the possible existence of regional or national**NB:** regulations regarding disposal.**Section 14: Transport information****Transport class:** This product does not require a classification for transport.**Section 15: Regulatory information**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Specific regulations: US Toxic Substances Control Act (TSCA) – All components are listed or exempt
Canadian Domestic Substance List (DSL) – All components are listed or exempt
California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):
Ingredients within this product are not on the Proposition 65 Lists

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with US OSHA Hazard Communication Standard (United Nations GHS version 3)

Phrases used in s.2 and s.3: EUH066: Repeated exposure may cause skin dryness or cracking.
H302: Harmful if swallowed.
H227: Combustible liquid
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H411: Toxic to aquatic life with long lasting

Legal disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.