

Muc-Off Helmet Care Kit Product code: 615 Kit SDS: 06/07/2017 Version 1

Kit Label:

See components for details.

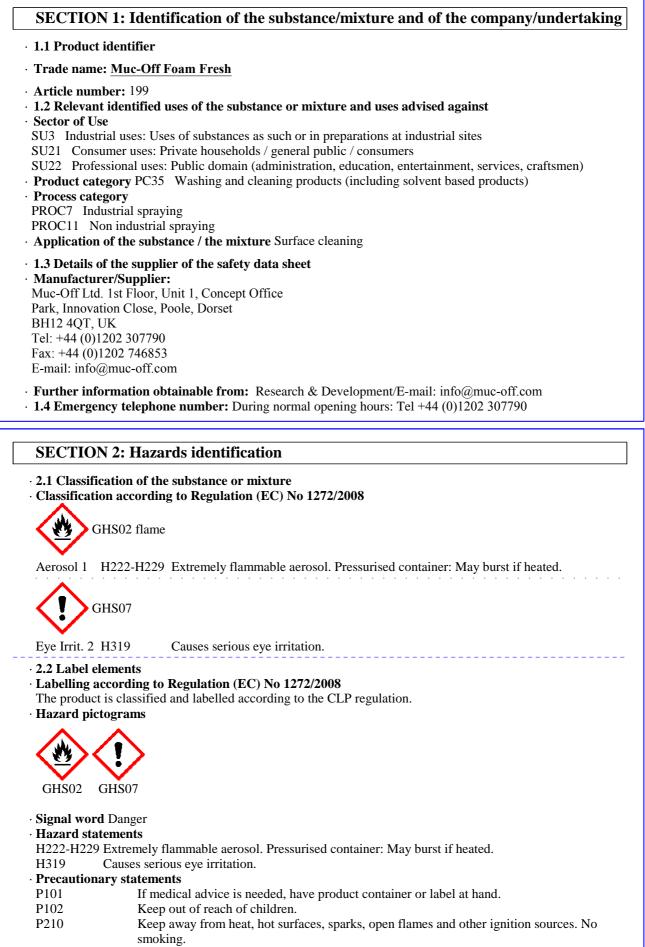
Transport Label: Component 199: UN1950 AEROSOLS, 2.1 Component 219: Not restricted for transport. Component 214: Not restricted for transport. luc-Off

Printing date: 20.09.2016

# Safety data sheet According to 1907/2006 EEC Article 31

Version: 3

Revision: 20.09.2016



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# Trade name: Muc-Off Foam Fresh

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P251	Do not pierce or burn, even after use.		
P211	Do not spray on an open flame or other ignition source.		
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if		
	present and easy to do. Continue rinsing.		
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.		
P403	Store in a well-ventilated place.		
· 2.3 Other hazards			
· Results of PBT and vPvB assessment			
· <b>PBT:</b> Not applicable.			

• **vPvB:** Not applicable.

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

### · 3.2 Mixtures

• **Description:** Active substance with propellant

· Dangerous components:		
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8)) Flam. Gas 1, H220; Press. Gas C, H280	25-<50%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-<10%
CAS: 9002-92-0	Laureth-8 Eye Dam. 1, H318; Aquatic Acute 1, H400	1.0-<2.5%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319	0.1-<1.0%

· Ingredients according to detergents guidline 648/2004/EC		
aliphatic hydrocarbons	≥ 30%	
non-ionic surfactants, anionic surfactants, perfumes, (R)-p-mentha-1,8-diene, Pinene, CITRAL	< 5%	
· Additional information:		

# **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact: Generally the product does not irritate the skin.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

 $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

### · 5.1 Extinguishing media

- Suitable extinguishing agents: Water haze Fire-extinguishing powder
- Carbon dioxide

Alcohol resistant foam

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- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Information about fire - and explosion protection:
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.

- Information about storage in one common storage facility:
- Observe official regulations on storing packagings with pressurised containers.
- · Further information about storage conditions:
- Keep receptacle tightly sealed.
- Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

- Protect from heat and direct sunlight.
- $\cdot$  7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

• Additional information about design of technical facilities: No further data; see item 7.

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### **Trade name: Muc-Off Foam Fresh**

· 8.1 Contro	ol parameters				
· Ingredient	· Ingredients with limit values that require monitoring at the workplace:				
106-97-8 b	outane (containing < 0.1%	butadiene (203-450-8))			
	rt-term value: 1810 mg/m <sup>3</sup> , 7				
	g-term value: 1450 mg/m³, 6				
Carc	c (if more than 0.1% of buta-	-1.3-diene)			
67-63-0 pr	opan-2-ol				
WEL Show	rt-term value: 1250 mg/m <sup>3</sup> , 5	500 ppm			
Lon	g-term value: 999 mg/m <sup>3</sup> , 40	00 ppm			
64-17-5 et	hanol				
WEL Lon	g-term value: 1920 mg/m <sup>3</sup> , 1	000 ppm			
· DNELs					
67-63-0 pr	opan-2-ol				
Oral	DNEL Long term-systemic	26 mg/kg bw/day (Consumer)			
Dermal	DNEL Long term-systemic	319 mg/kg bw/day (Consumer)			
		888 mg/kg bw/day (Worker)			
Inhalative	DNEL Long term-systemic	89 mg/m3 (Consumer)			
		500 mg/m3 (Worker)			
Additional information: The lists valid during the making were used as basis.					

### · 8.2 Exposure controls

### · Personal protective equipment:

- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX/P2

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

# · Protection of hands:



Protective gloves

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5 \text{ mm}$ 

### · Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses



Tightly sealed goggles

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**Trade name: Muc-Off Foam Fresh** 

· Body protection: Use protective suit. (EN-13034/6)

SECTION 9: Physical and chemical properties				
• 9.1 Information on basic physical and chemical properties				
· General Information				
· Appearance:				
Form: Aerosol				
Colour:	According to product specification			
· Odour:	Characteristic			
· Odour threshold:	Not determined.			
· pH-value at 20 °C:	9			
$\cdot$ Change in condition				
Melting point/Melting range:	Undetermined.			
<b>Boiling point/Boiling range:</b>	0 °C			
· Flash point:	-60 °C			
· Self-igniting:	Product is not selfigniting.			
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.			
· Explosion limits:	1.5 1.10/			
Lower:	1.5 Vol % 12.0 Vol %			
Upper:				
• Vapour pressure at 20 °C:	2100 hPa			
· Density at 20 °C:	0.81 g/cm <sup>3</sup>			
· Relative density	Not determined.			
· Vapour density Not determined.				
<ul> <li>Evaporation rate</li> </ul>	Not applicable.			
· Solubility in / Miscibility with				
water:	Not miscible or difficult to mix.			
· Partition coefficient (n-octanol/wat	er): Not determined.			
· Viscosity:				
Dynamic:	Not determined.			
Kinematic:	Not determined.			
· Solvent content:				
Organic solvents:	35.2 %			
Water:	62.2 %			
Solids content:	0.9 %			
• 9.2 Other information No further relevant information available.				

# **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

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• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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# **SECTION 11: Toxicological information**

### · 11.1 Information on toxicological effects

 $\cdot$  Acute toxicity Based on available data, the classification criteria are not met.

### · LD/LC50 values relevant for classification:

### 67-63-0 propan-2-ol

Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	13900 mg/kg (rabbit)
Inhalative	LC50/6h	25000 mg/m3 (rat)

### 9002-92-0 Laureth-8

Oral LD50 8600 mg/kg (rat)

• Primary irritant effect:

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

 $\cdot$  Germ cell mutagenicity Based on available data, the classification criteria are not met.

 $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.

 $\cdot$  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.

 $\cdot$  STOT-repeated exposure Based on available data, the classification criteria are not met.

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

# **SECTION 12: Ecological information**

# · 12.1 Toxicity

· Aquatic toxicity:

### 67-63-0 propan-2-ol

LOEC (8 days) 1000 mg/l (algae)

- LC50/96h 9640 mg/l (Pimephales promelas)
- LC50 (24h) 9714 mg/l (Daphnia magna)

**12.2 Persistence and degradability** No further relevant information available.

- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

 $\cdot$  12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• 12.6 Other adverse effects No further relevant information available.

# **SECTION 13: Disposal considerations**

# · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Frade name: Muc-Off Foam Fresh		
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• Uncleaned packaging: • Recommendation: Disposal must be r	nade according to official regulation	ns.
SECTION 14: Transport info	rmation	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	UN1950	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN</li> </ul>	UN1950 AEROSOLS	
· IMDG · IATA	AEROSOLS AEROSOLS, flammab	ble
· 14.3 Transport hazard class(es)		
· ADR		
· Class · Label	2 5F Gases. 2.1	
· ADN · ADN/R Class:	2 5F	
· IMDG, IATA	2 3Γ	
· Class · Label	2.1 2.1	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
• 14.5 Environmental hazards: • Marine pollutant:	No	
• 14.6 Special precautions for user • Danger code (Kemler):	Warning: Gases.	
· EMS Number:	F-D,S-U	
· Stowage Code	litre: Category A. For A	S with a maximum capacity of 1 AEROSOLS with a capacity above r WASTE AEROSOLS: Category
· Segregation Code	SG69 For AEROSOLS litre: Segregation as fo class 1 except for divis capacity above 1 litre: subdivision of class 2.	S with a maximum capacity of 1 or class 9. Stow "separated from" sion 1.4. For AEROSOLS with a Segregation as for the appropriate For WASTE AEROSOLS: appropriate subdivision of class 2.

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· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	2
Tunnel restriction code	D
· IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
· -	Not permitted as Excepted Quantity
· UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1

# **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:

Class	Share in %
Wasser	50-<75
NK	25-<50

· VOC-CH 35.18 %

- · VOC-EU 285.1 g/l
- · Danish MAL Code 4-3
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

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.

### · Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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# Trade name: Muc-Off Foam Fresh

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EINECS: European Inventory of Existing Commercial Chemical Substances	(10000000000000000000000000000000000000
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
MAL-Code: Måleteknisk Arbejdshygjejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, De	nmark)
DNEL: Derived No-Effect Level (REACH)	,
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Gas 1: Flammable gases – Category 1	
Aerosol 1: Aerosols – Category 1	
Press. Gas C: Gases under pressure – Compressed gas	
Flam. Liq. 2: Flammable liquids – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1	
	CP



SAFETY DATA SHEET Muc-Off Helmet & Visor Cleaner

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Compilation date: 03/02/2015

**Revision No:** 1

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

1.1. Product identifier

Product name: Muc-Off Helmet & Visor Cleaner

Product code: 219

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

1.3. Details of the supplier of the safety data sheet

### Company name:

Muc-Off Ltd. Unit 1, 1st Floor, Concept Office Park, Innovation Close, BH12 4QT United Kingdom Tel: +44(0)1202 307790 Email: info@muc-off.com

# **1.4. Emergency telephone number**

Emergency tel: +44(0)1202 307790

(office hours only)

**Section 2: Hazards identification** 

2.1. Classification of the substance or mixture

**Classification under CHIP:** This product has no classification under CHIP.

Classification under CLP: This product has no classification under CLP.

2.2. Label elements

Label elements: This product has no label elements.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Muc-Off Helmet & Visor Cleaner

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### Hazardous ingredients:

QUATERNARY AMMONIUM COMPOUNDS

	EINECS	CAS	CHIP Classification	CLP Classification	Percent
2	264-151-6	63449-41 -2	Xn: R21/22; C: R34; N: R50	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400	<1%

**Section 4: First aid measures** 

### **4.1. Description of first aid measures**

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Wash out mouth with water.

Inhalation: Move to fresh air in case of accidental inhalation of vapours.

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

**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: No symptoms.

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

Immediate / special treatment: Not applicable.

### **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.

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### 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: Not applicable.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific end use(s): No data available.

### Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

**DNEL/PNEC Values** 

**DNEL / PNEC** No data available.

**8.2. Exposure controls** 

**Respiratory protection:** 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:	Blue
Odour:	Odourless
Evaporation rate:	Slow
Oxidising:	Not applicable.
Solubility in water:	Highly soluble
Viscosity:	Non-viscous
Boiling point/range°C:	100
Flammability limits %: lower:	Not applicable.
Flash point°C:	Not applicable.
Autoflammability°C:	Not applicable.
Relative density:	1.00

Melting point/range°C: 0 upper: Not applicable. Part.coeff. n-octanol/water: No data available. Vapour pressure: No data available.

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pH: Approx. 7

**VOC g/I:** Not applicable.

9.2. Other information

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.

**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:

### QUATERNARY AMMONIUM COMPOUNDS

DERMAL	RAT	LD50	1560	mg/kg
ORAL	RAT	LD50	795	mg/kg

Toxicity values: No data available.

### 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: No symptoms.

Section 12: Ecological information

Muc-Off Helmet & Visor Cleaner

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### 12.1. Toxicity

### Hazardous ingredients:

### **QUATERNARY AMMONIUM COMPOUNDS**

DAPHNIA	48H EC50	0.03	mg/l
GREEN ALGA (Selenastrum capricornutum)	96H ErC50	0.06	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	1.7	mg/l

### **12.2.** Persistence and degradability

Persistence and degradability: The surfactant(s) contained in this preparation complies (comply) with the Biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents, (or are undergoing testing to obtain a derogation within the terms of the directive). Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a manufacturer.

### 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.

**12.6. Other adverse effects** 

Other adverse effects: Negligible ecotoxicity.

### Section 13: Disposal considerations

**13.1. Waste treatment methods** 

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### **Section 14: Transport information**

**Transport class:** This product does not require a classification for transport.

### Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Muc-Off Helmet & Visor Cleaner

Other information	
Other information:	This safety data sheet is prepared in accordance with Commission
	Regulation (EU) No 453/2010.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	
	H312: Harmful in contact with skin.
	H314: Causes severe skin burns and eye damage.
	H400: Very toxic to aquatic life.
	R21/22: Harmful in contact with skin and if swallowed.
	R34: Causes burns.
	R50: Very toxic to aquatic organisms.
Legend to abbreviations:	PNEC = predicted no effect concentration
-	DNEL = derived no effect level
	LD50 = median lethal dose
	LC50 = median lethal concentration
	EC50 = median effective concentration
	IC50 = median inhibitory concentration
	dw = dry weight
	bw = body weight
	cc = closed cup
	oc = open cup
	MUS = mouse
	GPG = guinea pig
	RBT = rabbit
	HAM = hamster
	HMN = human
	MAM = mammal
	PGN = pigeon
	IVN = intravenous
	SCU = subcutaneous
	SKN = skin
	DRM = dermal
	OCC = ocular/corneal
	OPT = optical
	INH = inhalation
	PCP = phycico-chemical properties
Legal disclaimer:	The above information is believed to be correct but does not purport to be
	all inclusive and shall be used only as a guide. This company shall not be
	held liable for any damage resulting from handling or from contact with the
	above product.



according to Regulation (EC) No 1907/2006

Print date: 18.05.2015

# **Muc-Off Premium Anti-Fog Treatment**

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

### 1.1. Product identifier

Muc-Off Premium Anti-Fog Treatment (214)

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

### 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

Tel:	+44 (0)1202 307790
Fax:	+44(0)1202 746853

# 1.4. Emergency telephone

<u>number:</u>

+44 (0)1202 307790

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

### 2.2. Label elements

P210

#### Precautionary statements P102

Keep out of reach of children.

Keep away from heat. No Smoking.

### Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

### **Chemical characterization**

Cleaning product, contains water, alcohols, surfactants and colourings

### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-661-7	Isopropanol	1-5%
67-63-0	F - Highly flammable, Xi - Irritant R11-36-67	
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	

Full text of R-, H- and EUH-phrases: see section 16.

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

### General information

Remove soiled clothing.

according to Regulation (EC) No 1907/2006

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#### After inhalation

Upon irritation of the respiratory tract or mucous membranes (e.g. coughing), indisposition or prolonged exposure, consult a doctor.

#### After contact with skin

Wash contaminated skin areas thoroughly with soap and water.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids.

#### After ingestion

Clean mouth with water and drink plenty of water afterwards. - If you feel unwell, seek medical advice (show the label where possible).

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

No information available.

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

No information available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam, carbon dioxide (CO2), chemical fire extinguisher, water spray mist

#### Unsuitable extinguishing media

Extinguishing media which must not be used for safety reasons: High volume water jet.

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

Large quantities: Vapours may form explosive mixture with air. Do not breathe in the vapours and combustion gases. Vapours are heavier than air and spread at the soil. Pay altention to flashback.

#### 5.3. Advice for firefighters

Large quantities: In the event of fire, wear self-contained breathing apparatus.

#### Additional information

Water mist may be used to cool closed containers.

### SECTION 6: Accidental release measures

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

Avoid contact with eyes.

Slipping hazard due to leakage.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

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

Large quantities: Soak up with inert absorbent material. Dispose of the material collected according to regulations.

#### 6.4. Reference to other sections

Refer to safety instructions (see sections 7 and 8). Suitable protective equipment: See section 8. Dispose of as described in section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

No special action required if used correctly. Do not empty container with pressure, it is not a pressurised container.

according to Regulation (EC) No 1907/2006

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### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

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

### Requirements for storage rooms and vessels

Store sealed in the original container. Store in cool place.

### Further information on storage conditions

Protect from heat and direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA <b>(</b> 8 h)	WEL
		500	1250		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Protective and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### Eye/face protection

Not required. In case of risk of splashing, wear protective glasses.

### Hand protection

No special measures are necessary when normal, good hygiene is practised. In the case of lengthy skin contact. Protective gloves made out of: PVC

#### Skin protection

Not required.

### **Respiratory protection**

Not required.

### SECTION 9: Physical and chemical properties

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

Physical state:	liquid		
Colour:	yellowish-orange		
			Test method
pH-Value:		approx. 7.5	
Changes in the physical state			
Flash point:		> 90 °C	
Vapour pressure: (at 20 °C)		<0.02 hPa	
Density:		1.01 g/cm³	
Water solubility:		completely miscible	
Viscosity / kinematic:		4.1 mm²/s	

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

### according to Regulation (EC) No 1907/2006

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### 10.2. Chemical stability

Stable at normal conditions.

# 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No decomposition if used as directed.

### 10.5. Incompatible materials

No dangerous reactions are known.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

No data is available on the product itself.

### Acute toxicity

	Exposure routes	Method	Dose	Species	Source
67-63-0	Isopropanol				
	oral	LD50	4710 mg/kg	rats	
	dermal	LD50	12800 mg/kg	rats	
	inhalative (4 h) vapour	LC50	72.6 mg/l	rats	

### Irritation and corrosivity

Contact with eyes may result in irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No data is available on the product itself.

CAS No	Chemicaliname					
	Aquatic toxicity	Method	Dose		Species	Source
67-63-0	Isopropanol					
	Acute fish toxicity	LC50	1400 mg/l	96 h	Lepomis macrochirus	
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	13299 mg/l	48 h	Daphnia magna	

### 12.2. Persistence and degradability

No data is available on the product itself.

The surface active substances of the product correspond to the requirements of the EC Detergent Regulation (EC/648/2004) concerning ultimate aerobic biodegradation of tensides for washing and cleaning agents.

#### 12.3. Bioaccumulative potential

No data is available on the product itself.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	Isopropanol	0.05

according to Regulation (EC) No 1907/2006

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### 12.4. Mobility in soil

No data is available on the product itself.

### 12.5. Results of PBT and vPvB assessment

No data is available on the product itself.

### 12.6. Other adverse effects

No data is available on the product itself.

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

### Advice on disposal

Disposal in accordance with the official regulations. Product can be supplied in accordance with local authority requirements a biological treatment plant.

### Waste disposal number of waste from residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors Classified as hazardous waste.

# SECTION 14: Transport information

### Land transport (ADR/RID)

<u>14.1. UN number:</u>	not regulated					
14.2. UN proper shipping name:	not regulated					
<u>14.3. Transport hazard class(es):</u>	not regulated					
14.4. Packing group:	not regulated					
Other applicable information (land transport) Not classified as dangerous regarding transport regulations.						
Inland waterways transport (ADN)						
<u>14.1. UN number:</u>	not regulated					
14.2. UN proper shipping name:	not regulated					
14.3. Transport hazard class(es):	not regulated					
14.4. Packing group:	not regulated					
Marine transport (IMDG)						
<u>14.1. UN number:</u>	not regulated					
14.2. UN proper shipping name:	not regulated					
14.3. Transport hazard class(es):	not regulated					
Other applicable information (marine train Not classified as dangerous re						
Air transport (ICAO)						
<u>14.1. UN number:</u>	not restricted					
14.2. UN proper shipping name:	not restricted					
14.3. Transport hazard class(es):	not restricted					
Other applicable information (air transpo Not classified as dangerous re	•					
14.5. Environmental hazards						
ENVIRONMENTALLY HAZARDOUS;	no					

according to Regulation (EC) No 1907/2006

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### 14.6. Special precautions for user

Not applicable.

# 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### SECTION 15: Regulatory information

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

### EU regulatory information

2004/42/EC (VOC):

< = 5%

Additional information

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No Substances of Very High Concern (SVHC) according REACH Articel 57.

National regulatory information

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

### SECTION 16: Other information

### Relevant R-phrases (Number and full text)

	11	Highly flammable.	
	36	Irritating to eyes.	
	67	Vapours may cause drowsiness and dizziness.	
	Relevant H- and	EUH-phrases (Number and full text)	
	H225	Highly flammable liquid and vapour.	
	H319	Causes serious eye irritation.	
	H336	May cause drowsiness or dizziness.	
	EUH210	Safety data sheet available on request.	
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