



# Safety Data Sheet

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 number:** +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**

**Precautionary statements**

P102 Keep out of reach of children.  
P210 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	1 - 5 %
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-661-7	Isopropanol	
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.

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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 (CO<sub>2</sub>), 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 attention 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.

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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/m <sup>3</sup>	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (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: <0.02 hPa  
(at 20 °C)

Density: 1.01 g/cm<sup>3</sup>

Water solubility: completely miscible

Viscosity / kinematic: 4.1 mm<sup>2</sup>/s

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

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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

#### Toxicokinetics, metabolism and distribution

No data is available on the product itself.

#### Acute toxicity

CAS No	Chemical name					
		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	Chemical name						
		Aquatic toxicity	Method	Dose	[h]   [d]	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

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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)

14.1. UN number: not regulated

14.2. UN proper shipping name: not regulated

14.3. Transport hazard class(es): not regulated

14.4. Packing group: not regulated

#### Other applicable information (land transport)

Not classified as dangerous regarding transport regulations.

### Inland waterways transport (ADN)

14.1. UN number: 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)

14.1. UN number: not regulated

14.2. UN proper shipping name: not regulated

14.3. Transport hazard class(es): not regulated

#### Other applicable information (marine transport)

Not classified as dangerous regarding transport regulations.

### Air transport (ICAO)

14.1. UN number: not restricted

14.2. UN proper shipping name: not restricted

14.3. Transport hazard class(es): not restricted

#### Other applicable information (air transport)

Not classified as dangerous regarding transport regulations.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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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

No Substances of Very High Concern (SVHC) according REACH Article 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. |