

Muc-Off Team Sky Dry Bag Product code: 378 Kit SDS: 19/09/2016



SAFETY DATA SHEET NANO TECH BIKE CLEANER

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

1.1. Product identifier

Product name NANO TECH BIKE CLEANER

Product number 904, 906, 907

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

Identified uses Detergent.

1.3. Details of the supplier of the safety data sheet

Supplier Muc- Off Ltd

Unit 1, 1st Floor,

Innovation Close, Concept Office Park, Poole, Dorset

BH12 4QT

+44 (0) 1202 307790 info@muc-off.com

1.4. Emergency telephone number

Emergency Contact Number +44 (0) 1202 307790

(Office Hours)

Emergency Contact Number (Outside Office Hours)

Sds No.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Eye Irrit. 2 - H319

Environmental hazards Not Classified

Classification (67/548/EEC or Xi; R36

1999/45/EC)

2.2. Label elements

Pictogram



Signal word Warning

Revision date: 01/07/2015 Revision: 04 Supersedes date: 07/04/2015

NANO TECH BIKE CLEANER

Hazard statements H319 Causes serious eye irritation.

Precautionary statements P264 Wash contaminated skin thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TETRASODIUM EDTA 1-5%

CAS number: 64-02-8 EC number: 200-573-9 REACH registration number: 01-

2119486762-27

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302 Xn; R20/22. Xi; R41

Acute Tox. 4 - H332 Eye Dam. 1 - H318

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, 1-5%

SODIUM SALTS

CAS number: 68891-38-3 EC number: 500-234-8 REACH registration number: 01-

2119488639-16

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 Xi; R38, R41

Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

GLYCERINE 1-5%

CAS number: 56-81-5 EC number: 200-289-5

Classification Classification (67/548/EEC or 1999/45/EC)

Not Classified

TRISODIUM NITRILOTRIACETATE <1%

CAS number: 5064-31-3 EC number: 225-768-6 REACH registration number: 01-

2119519239-36

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302 Xn;R22. Carc. Cat. 3;R40. Xi;R36.

Eye Irrit. 2 - H319 Carc. 2 - H351

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Never give anything by mouth to an unconscious person. Get medical attention if

any discomfort continues.

Inhalation Remove affected person from source of contamination. Get medical attention if any discomfort

continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any

discomfort continues.

Skin contact Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if

any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Get medical attention promptly if symptoms occur after washing.

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

Ingestion May cause stomach pain or vomiting.

Eve contact Causes serious eye irritation.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use

water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours. Nitrous gases (NOx).

5.3. Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation

of vapours and contact with skin and eyes. Provide adequate ventilation. In case of spills,

beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled

discharges into watercourses must be reported immediately to the Environmental Agency or

other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into

containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and place in suitable waste disposal containers and

seal securely. For waste disposal, see Section 13.

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6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed. Keep only in the original container.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

GLYCERINE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ miss

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)

DNEL Industry - Dermal; Long term systemic effects: 2750 mg/kg/day

Industry - Inhalation; Long term systemic effects: 175 mg/m³ Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day Consumer - Oral; Long term systemic effects: 15 mg/kg/day Consumer - Inhalation; Long term systemic effects: 52 mg/m³

PNEC - Fresh water; 0.24 mg/l

- Soil; 0.946 mg/kg - STP; 10000 mg/l - Marine water; 0.024 mg/l - Intermittent release; 0.071 mg/l

Sediment (Freshwater); 5.45 mg/kgSediment (Marinewater); 0.545 mg/kg

GLYCERINE (CAS: 56-81-5)

Ingredient comments WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment







Eve/face protection

The following protection should be worn: Chemical splash goggles.

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Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information

about the breakthrough time of the glove material. Neoprene. EN 374

Other skin and body

protection

Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Coloured liquid.

Colour Pink.

Odour Characteristic.

pH pH (concentrated solution): 10.8 - 11.4

Relative density 1.02 @ °C

Solubility(ies) Soluble in water.

9.2. Other information

Other information Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Not determined.

reactions

products

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours. Nitrous gases (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 70,016.89189189

Acute toxicity - inhalation

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ATE inhalation (gases ppm) 190,033.78378378

ATE inhalation (vapours mg/l) 464.52702703

ATE inhalation (dusts/mists

mg/l)

63.34459459

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Causes serious eye irritation.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity No data available.

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria

as laid down in Regulation (EC) No. 648/2004 on detergents. 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 detergent manufacturer.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available.

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information This material and its container must be disposed of as hazardous waste. Do not puncture or

incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

NANO TECH BIKE CLEANER

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

ADR/RID subsidiary risk

IMDG subsidiary risk

ICAO subsidiary risk

14.4. Packing group

No information required.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

No information required.

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

Transport in bulk according to No information required.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

The surfactant(s) contained in this product complies(comply) with the biodegradability criteria

as laid down in Regulation (EC) No. 648/2004 on detergents.

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 detergent manufacturer.

Guidance CHIP for everyone HSG228.

Approved Classification and Labelling Guide (Sixth edition) L131.

Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

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Revision date 01/07/2015

Revision 04

Supersedes date 07/04/2015

SDS number 13533

SDS status Approved.

Signature Muc-Off Ltd

Risk phrases in full R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed. R36 Irritating to eyes. R38 Irritating to skin.

R40 Limited evidence of a carcinogenic effect.

R41 Risk of serious damage to eyes.

Hazard statements in full H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.



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Compilation date: 09/03/2015

Revision date: 07/12/2015

Revision No: 4

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

1.1. Product identifier

Product name: MUC-OFF DRIVETRAIN CLEANER

Product code: 295, 304, 255, 808

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

Poole, Dorset 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 CLP: Asp. Tox. 1: H304; Eye Irrit. 2: H319; Skin Irrit. 2: H315

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.

H319: Causes serious eye irritation.

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard





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Signal words: Danger

Precautionary statements: P280: Wear protective gloves/eye protection.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/first

aid.

P331: Do NOT induce vomiting.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+313: If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

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

EINECS	CAS	PBT / WEL	CLP Classification	Percent
926-141-6	-	-	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.	10-
			4: H312; Acute Tox. 4: H302;	30%
			Eye Irrit. 2: H319; Skin Irrit. 2:	
			H315	

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

931-329-6	68155-07	-	Aquatic Chronic 2: H411; Eye	1-5%
	-7		Dam. 1: H318; Skin 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.

Consult a doctor.

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

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.

Ingestion: There may be soreness and redness of the mouth and throat.

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

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. Mark out the

contaminated area with signs and prevent access to unauthorised

personnel. 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: Avoid direct contact with the substance. Ensure there is sufficient

ventilation of the area. Do not handle in a confined space. Avoid the

formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

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

Suitable packaging: Must only be kept in original packaging.

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7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

BUTYL GLYCOL

Workplace exposure limits:

Respirable dust

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

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of

emergency.

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

Also soluble in: Most organic solvents.

Viscosity: Non-viscous

Kinematic viscosity: <20.5

Viscosity test method: Kinematic viscosity in 10-6 m2/s at 40°C (ISO 3219)

Boiling point/range°C: >35 **Melting point/range°C:** No data available.

Flammability limits %: lower: No data available. upper: No data available.

Flash point°C: 60 - 93 Part.coeff. n-octanol/water: No data available.

Autoflammability°C: Not applicable. Vapour pressure: No data available.

Relative density: 0.835 **pH:** Not applicable.

VOC g/I: No data available.

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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. 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
ORL	MUS	LD50	1230	mg/kg
ORL	RAT	LD50	1746	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

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Aspiration hazard	-	Hazardous: calculated
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Symptoms / routes of exposure

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.

Ingestion: There may be soreness and redness of the mouth and throat.

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

Exposure may cause coughing or wheezing.

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

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

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

Daphnia magna	48H EC50	>10	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>10	mg/l

BUTYL GLYCOL

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

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

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

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

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Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised

disposal company.

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

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: EUH066: Repeated exposure may cause skin dryness or cracking.

H302: Harmful if swallowed.

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 effects.

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.



MUC-OFF HYDRODYNAMIC LUBE

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Compilation date: 12/09/2016

Revision No: 1

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

1.1. Product identifier

Product name: MUC-OFF HYDRODYNAMIC LUBE

Product code: 895

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

Poole, Dorset 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 CLP: Eye Irrit. 2: H319

Most important adverse effects: Causes serious eye irritation.

2.2. Label elements

Label elements:

Hazard statements: H319: Causes serious eye irritation.

Hazard pictograms: GHS07: Exclamation mark



Signal words: Warning

Precautionary statements: P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/eye protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several

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minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical advice.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ZINC DIALKYL DITHIOPHOSPHATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
288-917-4	85940-28	_	Skin Irrit. 2: H315; Eye Dam. 1:	1-5%
	-9		H318; Aquatic Chronic 2: H411	

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. Do not induce vomiting.

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.

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: 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.

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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: Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

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

Suitable packaging: Must only be kept in original packaging.

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

Engineering measures: Ensure there is sufficient ventilation of the area.

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

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Colour: Yellow

Odour: Pleasant

Evaporation rate: Negligible

Oxidising: Not applicable.

Solubility in water: Insoluble

Also soluble in: Most organic solvents.

Viscosity: Oily

Kinematic viscosity: >20.5

Viscosity test method: Kinematic viscosity in 10-6 m2/s at 40°C (ISO 3104/3105)

Boiling point/range°C: >35 Melting point/range°C: <0

Flammability limits %: lower: No data available. upper: No data available.

Flash point°C: >93 Part.coeff. n-octanol/water: No data available.

Autoflammability°C: No data available. Vapour pressure: No data available.

Relative density: 0.900 **pH**: Not applicable.

VOC g/I: 5

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

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Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	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: No symptoms.

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

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Readily absorbed into soil. Insoluble in water.

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

Disposal operations: Transfer to a suitable container and arrange for collection by specialised

disposal company.

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

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15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission

Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H315: Causes skin irritation.

H318: Causes serious eye damage.H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

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.



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

· 1.1 Product identifier

Trade name: Muc-Off Bike Protect

· Article number: 909

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

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC24 Lubricants, greases, release products

· Process category

PROC7 Industrial spraying PROC11 Non industrial spraying

· Application of the substance / the mixture Lubricant

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Muc-Off Ltd

Unit 1, 1st Floor, Concept Office Park Innovation Close, Poole, Dorset, BH12 4QT

Tel: +44 (0) 1202 307790 Fax: +44 (0) 1202 746853 E-mail: info@muc-off.com

- · Further information obtainable from: Research & Development/E-mail: info@muc-off.com
- 1.4 Emergency telephone number: During normal opening hours: Tel +44 (0) 1202 307790

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS02

- · Signal word Danger
- · Hazard-determining components of labelling:

Hydrocarbons,C10-C13,n-alkanes,cyclic,<2% aromates, Benzene <0.1%

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P211 Do not spray on an open flame or other ignition source.

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Safety data sheet According to 1907/2006 EEC Article 31

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P280 Wear protective gloves / eye protection.

P271 Use only outdoors or in a well-ventilated area.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P403 Store in a well-ventilated place.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · **Description:** Active substance with propellant

· Dangerous components:		
EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Hydrocarbons,C10-C13,n-alkanes,cyclic,<2% aromates, Benzene <0.1%	50-<75%
	Asp. Tox. 1, H304	
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	2.5-<10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1, H220; Press. Gas C, H280	2.5-<10%

· Ingredients according to detergents guidline 648/2004/EC

aliphatic hydrocarbons

≥ 30%

· 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.
- · 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.

· 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

· For safety reasons unsuitable extinguishing agents: Water with full jet

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- 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.

· 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.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane (containing < 0.1% butadiene (203-450-8))

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

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74-98-6 propane

OEL Short-term value: 3600 mg/m³, 2000 ppm Long-term value: 1800 mg/m³, 1000 ppm

· Additional Occupational Exposure Limit Values for possible hazards during processing:

Oil mist

WEL Short-term value: 10 mg/m³ Long-term value: 5 mg/m³

· 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.

Do not inhale gases / fumes / aerosols.

· 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:

Wear gloves for the protection against chemicals according to EN 374



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: ≥ 0.5 mm

· Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

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

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

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9.1 Information on basic physical a	nd chemical properties
General Information	
Appearance:	
Form:	Aerosol
Colour:	Clear
Odour:	Sweetish
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44 °C
Flash point:	-97 °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:	
Lower:	0.7 Vol %
Upper:	10.9 Vol %
Vapour pressure at 20 °C:	1 hPa
Density at 20 °C:	0.74 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	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:	89.1 %
Solids content:	0.8 %
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.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Hydrocarbons,C10-C13,n-alkanes,cyclic,<2% aromates, Benzene <0.1%

Oral	LD50	>5000 mg/kg (rat)
		>5000 mg/kg (rabbit)
Inhalative	LC50/4h	>4951 mg/l (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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 hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

Hydrocarbons,C10-C13,n-alkanes,cyclic,<2% aromates, Benzene <0.1%

•	· · · · · · · · · · · · · · · · · · ·
	1000 mg/l (Daphnia magna)
EL0(72h)	1000 mg/l (Pseudokirchneriella subcapitata)
LL0(96h)	1000 mg/l (Oncorhynchus mykiss (96h))

- · 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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · 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. Harmful to aquatic organisms

- · 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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 \cdot Uncleaned packaging: \cdot Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number ADR, ADN, IMDG, IATA	UN1950
14.2 UN proper shipping name ADR, ADN IMDG IATA	UN1950 AEROSOLS AEROSOLS AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class	2 5F Gases.
Label	2.1
ADN ADN/R Class:	2 5F
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): EMS Number: Stowage Code Segregation Code	Warning: Gases. F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity abov 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS:
	Segregation as for the 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
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 28, 29
- · National regulations:

Class	Share in %
NK	75-<100

- · **VOC-CH** 89.08 %
- · VOC-EU 656.5 g/l
- · Danish MAL Code 5-3
- · 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.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

· Abbreviations and acronyms:

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

EINECS: European Inventory of Existing Commercial Chemical Substances

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, Denmark) LC50:

Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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Safety data sheet According to 1907/2006 EEC Article 31

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Flam. Gas 1: Flammable gases – Category 1 Aerosol 1: Aerosols – Category 1 Press. Gas C: Gases under pressure – Compressed gas Asp. Tox. 1: Aspiration hazard – Category 1

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