

**1 Identification**

- **Product identifier**
- **Trade name:** High Pressure Quick Drying Chain Degreaser (US)
- **Article number:** 20394US
- **Application of the substance / the mixture** Cleaner solvent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Muc-Off Ltd  
Branksome Business Park, Unit 23, Bourne Valley Rd,  
Poole BH12 1DW Tel: +44 (0) 1202 307790
- Fax: +44 (0) 1202 746853  
E-mail: info@muc-off.com
- **Information department:** Research & Development/E-mail: info@muc-off.com
- **Emergency telephone number:** during normal opening hours: CHEMTREC: 1-800-424-9300  
24HR

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS08 Health hazard

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
propan-2-ol

- **Hazard statements**

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

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

- **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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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.  
 P261 Avoid breathing spray.  
 P280 Wear protective gloves.  
 P271 Use only outdoors or in a well-ventilated area.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 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.

· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 1  
 Fire = 4  
 Reactivity = 3

· **WHMIS-ratings (scale 0 - 4)**

Health = 1  
 Fire = 4  
 Reactivity = 3

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

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Cleansing agent· **Dangerous components:**

|                                           |                                                                   |          |
|-------------------------------------------|-------------------------------------------------------------------|----------|
| Reg.nr.: 01-2119475514-35                 | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 75-<100% |
| CAS: 67-63-0<br>Reg.nr.: 01-2119457558-25 | propan-2-ol                                                       | 2.5-<10% |
| CAS: 124-38-9                             | carbon dioxide                                                    | 2.5-<10% |

## 4 First-aid measures

· **Description of first aid measures**· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.· **After swallowing:** Do not induce vomiting; immediately call for medical help.· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed** No further relevant information available.· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

· **Extinguishing media**· **Suitable extinguishing agents:**

Water haze

Fire-extinguishing powder

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Carbon dioxide

Alcohol resistant foam

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

## 6 Accidental release measures

### · Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

### · 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.

### · Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

### · 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.

### · Protective Action Criteria for Chemicals

#### · PAC-1:

67-63-0 propan-2-ol

400 ppm

#### · PAC-2:

67-63-0 propan-2-ol

2000\* ppm

#### · PAC-3:

67-63-0 propan-2-ol

12000\*\* ppm

## 7 Handling and storage

### · Handling:

#### · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

#### · Information about protection against explosions and fires:

Do not spray on a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized 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.

#### · 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 pressurized containers.

#### · Information about storage in one common storage facility:

Observe official regulations on storing packagings with pressurized containers.

#### · Further information about storage conditions:

Keep receptacle tightly sealed.

Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

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

|     |                                                    |
|-----|----------------------------------------------------|
| PEL | Long-term value: 980 mg/m <sup>3</sup> , 400 ppm   |
| REL | Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm |
|     | Long-term value: 980 mg/m <sup>3</sup> , 400 ppm   |
| TLV | Short-term value: 984 mg/m <sup>3</sup> , 400 ppm  |
|     | Long-term value: 492 mg/m <sup>3</sup> , 200 ppm   |
|     | BEI                                                |

### 124-38-9 carbon dioxide

|     |                                                         |
|-----|---------------------------------------------------------|
| PEL | Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm      |
| REL | Short-term value: 54.000 mg/m <sup>3</sup> , 30.000 ppm |
|     | Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm      |
| TLV | Short-term value: 54.000 mg/m <sup>3</sup> , 30.000 ppm |
|     | Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm      |

· **Ingredients with biological limit values:**

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

|     |                                              |
|-----|----------------------------------------------|
| BEI | 40 mg/L                                      |
|     | Medium: urine                                |
|     | Time: end of shift at end of workweek        |
|     | Parameter: Acetone (background, nonspecific) |

· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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

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## 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:  $\geq 0.5$  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.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

Form:

Aerosol

Color:

According to product specification

#### Odor:

Characteristic

#### Odor threshold:

Not determined.

#### pH-value:

Not determined.

#### Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

82 °C (180 °F)

#### Flash point:

-9 °C (16 °F)

#### Flammability (solid, gaseous):

Not applicable.

#### Ignition temperature:

&gt; 200 °C (&gt; 392 °F)

#### Decomposition temperature:

Not determined.

#### Auto igniting:

Product is not selfigniting.

#### Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

#### Explosion limits:

Lower:

0.8 Vol %

Upper:

12.0 Vol %

#### Vapor pressure at 20 °C (68 °F):

246 hPa (185 mm Hg)

#### Density at 20 °C (68 °F):

0.75 g/cm<sup>3</sup> (6.259 lbs/gal)

#### Relative density

Not determined.

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- |                                                   |                                            |
|---------------------------------------------------|--------------------------------------------|
| · <b>Vapor density</b>                            | Not determined.                            |
| · <b>Evaporation rate</b>                         | Not applicable.                            |
| · <b>Solubility in / Miscibility with Water:</b>  | Not miscible or difficult to mix.          |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                               |                                            |
| <b>Dynamic:</b>                                   | Not determined.                            |
| <b>Kinematic:</b>                                 | Not determined.                            |
| · <b>Solvent content:</b>                         |                                            |
| <b>Organic solvents:</b>                          | 96.5 %                                     |
| · <b>Other information</b>                        | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

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

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

|            |         |                      |
|------------|---------|----------------------|
| Oral       | LD50    | >5840 mg/kg (rat)    |
| Dermal     | LD50    | >2920 mg/kg (rabbit) |
| Inhalative | LC50/4h | >25 mg/l (rat)       |

#### 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)    |

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

### · Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

|         |             |   |
|---------|-------------|---|
| 67-63-0 | propan-2-ol | 3 |
|---------|-------------|---|

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

\* **12 Ecological information**· **Toxicity**· **Aquatic toxicity:****Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

|                |                                               |
|----------------|-----------------------------------------------|
| NOELR (72h)    | 3 mg/l (Pseudokirchneriella subcapitata)      |
| EL50(48h)      | 3 mg/l (Daphnia magna)                        |
| EL50 (72h)     | 30-100 mg/l (Pseudokirchneriella subcapitata) |
| LL50 (96h)     | 11.4 mg/l (Oncorhynchus mykiss (96h))         |
| NOEC (21 days) | 0.17 mg/l (Daphnia magna)                     |
| LOEC (21 days) | 0.32 mg/l (Daphnia magna)                     |

**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)       |

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

\* **14 Transport information**

- |                                    |                     |
|------------------------------------|---------------------|
| · <b>UN-Number</b>                 | UN1950              |
| · <b>DOT, ADR, ADN, IMDG, IATA</b> |                     |
| · <b>UN proper shipping name</b>   | Aerosols, flammable |
| · <b>DOT</b>                       |                     |

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|                   |                                                    |
|-------------------|----------------------------------------------------|
| · <b>ADR, ADN</b> | UN1950 Aerosols, ENVIRONMENTALLY HAZARDOUS         |
| · <b>IMDG</b>     | AEROSOLS (Naphtha (petroleum) hydrotreated light), |
|                   | MARINE POLLUTANT                                   |
| · <b>IATA</b>     | AEROSOLS, flammable                                |

· **Transport hazard class(es)**· **DOT**

|                |     |
|----------------|-----|
| · <b>Class</b> | 2.1 |
| · <b>Label</b> | 2.1 |

· **ADR**

|                |            |
|----------------|------------|
| · <b>Class</b> | 2 5F Gases |
| · <b>Label</b> | 2.1        |

· **ADN**

|                       |      |
|-----------------------|------|
| · <b>ADN/R Class:</b> | 2 5F |
|-----------------------|------|

· **IMDG**

|                |     |
|----------------|-----|
| · <b>Class</b> | 2.1 |
| · <b>Label</b> | 2.1 |

· **IATA**

|                |     |
|----------------|-----|
| · <b>Class</b> | 2.1 |
| · <b>Label</b> | 2.1 |

· **Packing group**

|                               |      |
|-------------------------------|------|
| · <b>DOT, ADR, IMDG, IATA</b> | Void |
|-------------------------------|------|

|                                 |                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------|
| · <b>Environmental hazards:</b> | Product contains environmentally hazardous substances:<br>Naphtha (petroleum) hydrotreated light |
|---------------------------------|--------------------------------------------------------------------------------------------------|

|                            |                               |
|----------------------------|-------------------------------|
| · <b>Marine pollutant:</b> | Yes<br>Symbol (fish and tree) |
|----------------------------|-------------------------------|

|                                 |                        |
|---------------------------------|------------------------|
| · <b>Special marking (ADR):</b> | Symbol (fish and tree) |
|---------------------------------|------------------------|

|                                       |                                                                                                                                                                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · <b>Special precautions for user</b> | Warning: Gases                                                                                                                                                                                                                      |
| · <b>Danger code (Kemler):</b>        | -                                                                                                                                                                                                                                   |
| · <b>EMS Number:</b>                  | F-D,S-U                                                                                                                                                                                                                             |
| · <b>Stowage Code</b>                 | SW1 Protected from sources of heat.<br>SW22 For AEROSOLS with a maximum capacity of 1 litre:<br>Category A. For AEROSOLS with a capacity above 1 litre:<br>Category B. For WASTE AEROSOLS: Category C, Clear of<br>living quarters. |
| · <b>Segregation Code</b>             | SG69 For AEROSOLS with a maximum capacity of 1 litre:<br>Segregation as for class 9. Stow "separated from" class 1                                                                                                                  |

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|                                                                                  |                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ·                                                                                | 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. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                                                                                                                                                                                |
| · <b>Transport/Additional information:</b>                                       |                                                                                                                                                                                                                |
| · <b>ADR</b>                                                                     |                                                                                                                                                                                                                |
| · <b>Excepted quantities (EQ)</b>                                                | Code: E0<br>Not permitted as Excepted Quantity                                                                                                                                                                 |
| · <b>IMDG</b>                                                                    |                                                                                                                                                                                                                |
| · <b>Limited quantities (LQ)</b>                                                 | 1L                                                                                                                                                                                                             |
| · <b>Excepted quantities (EQ)</b>                                                | Code: E0<br>Not permitted as Excepted Quantity                                                                                                                                                                 |
| · <b>UN "Model Regulation":</b>                                                  | UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS                                                                                                                                                               |

## \* 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

### · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

### · Section 313 (Specific toxic chemical listings):

67-63-0 propan-2-ol

### · TSCA (Toxic Substances Control Act):

67-63-0 propan-2-ol

124-38-9 carbon dioxide

### · Proposition 65

#### · Chemicals known to cause cancer:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

#### · Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

### · Cancerogenity categories

#### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

#### · TLV (Threshold Limit Value established by ACGIH)

67-63-0 propan-2-ol

A4

#### · MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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**· National regulations:**

| Class | Share in % |
|-------|------------|
| NK    | 75-<100    |

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**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.

**· Department issuing SDS:**

Research &amp; Development

**· Date of preparation / last revision 02/07/2017 / 12**
**· 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Aerosol 1: Aerosols – Category 1

Skin Irrit. 2: Skin corrosion/irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1