



# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH RegulationsSI  
Issue Date 7/10/2023 Revision date: 7/10/2023 Version: 1.0 SDS Number: P2023070401

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Muc-Off Road & Gravel Tyre sealant 21040, 21041, 21042, 21043, 21089  
: Tubeless Kits - 20084, 20085, 20086, 20087 & 20137

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

##### 1.2.1. Relevant identified uses

Use of the substance or mixture : Bicycle Tire Puncture And Repair Substance

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Muc-Off Ltd  
UK - Muc-Off Ltd, Unit 23 Branksome Business Park, Bourne Valley Road, Poole, Dorset, BH12 1DW  
EU- Muc-Off Ltd, Unit 3D North Point House, North Point Business Park, New Mallow Road, Cork, Ireland, T23 AT2P  
Tel: +44(0)1202 307790 Email: info@muc-off.com

#### 1.4. Emergency telephone number

No additional information available NHS 111/NHS 24/NHS Direct 111 0845 4647 or call a doctor

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation GB CLP

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation GB CLP

No labelling applicable

#### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI  
Issue date : 7/10/2023 Revision date: 7/10/2023 Version: 1.0 SDS Number: P2023070401

### 3.2. Mixtures

| Name   | Product identifier                      | %  | Classification according to Regulation GB CLP |
|--|---|----|---|
| 2-Propenoic acid, 2-methyl-, polymer with 1,3-butadiene and 2-propenenitrile | CAS-No.: 9010-81-5                      | 40 | Not classified                                |
| Water  | CAS-No.: 7732-18-5<br>EC-No.: 231-791-2 | 30 | Not classified                                |
| Propane-1,2-diol   | CAS-No.: 57-55-6<br>EC-No.: 200-338-0   | 20 | Not classified                                |
| Mica   | CAS-No.: 12001-26-2                     | 10 | Not classified                                |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists. Allow affected person to breathe fresh air. Allow the victim to rest.  |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. Seek medical attention if ill effect or irritation develops.   |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution. Seek medical attention if ill effect or irritation develops. |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell. Rinse mouth. Obtain emergency medical attention.   |

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : On combustion forms: carbon oxides  
Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition can lead to the release of irritating gases and vapours.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  
Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI

### SECTION 6: Accidental release measures

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

General measures : Evacuate unnecessary personnel.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment. Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection". Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures.

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

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store in a well-ventilated place. Keep cool. Keep container tightly closed in a cool, well-ventilated place.

Suitable packaging material : PE

#### 7.3. Specific end use(s)

No additional information available

# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI

| Propane-1,2-diol (57-55-6)                    |  |
|---|--|
| United Kingdom - Occupational Exposure Limits |  |
| Local name                                    | Propane-1,2-diol   |
| WEL TWA (OEL TWA) [1]                         | 10 mg/m <sup>3</sup> particulates<br>474 mg/m <sup>3</sup> total vapour and particulates                           |
| WEL TWA (OEL TWA) [2]                         | 150 ppm total vapour and particulates  |
| WEL STEL (OEL STEL)                           | 1422 mg/m <sup>3</sup> (calculated-total vapour and particulates)<br>30 mg/m <sup>3</sup> (calculated-particulate) |
| WEL STEL (OEL STEL) [ppm]                     | 450 ppm (calculated-total vapour and particulates)   |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE  |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses. Safety glasses. Use eye protection according to ISO 16321-1

#### 8.2.2.2. Skin protection

##### and body protection:

Wear suitable protective clothing

#### Hand protection:

Impermeable protective gloves. protective gloves. Wear protective gloves. Wear suitable gloves tested to ISO 374-1

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable respiratory equipment in case of insufficient ventilation. Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI

### SECTION 9: Physical and chemical properties

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

|   |                                   |
|---|-----------------------------------|
| Physical state                                  | : Liquid                          |
| Colour  | : Milky Pink                      |
| Odour   | : Light Sweet Odour ( Strawberry) |
| Odour threshold                                 | : Not available                   |
| Melting point                                   | : -15°C                           |
| Freezing point                                  | : Not available                   |
| Boiling point                                   | : 100°C                           |
| Flammability                                    | : >95°C ASTM D3828                |
| Lower explosion limit                           | : Not available                   |
| Upper explosion limit                           | : Not available                   |
| Flash point                                     | : Not available                   |
| Auto-ignition temperature                       | : Not available                   |
| Decomposition temperature                       | : Not available                   |
| pH  | : 7-9                             |
| Viscosity, kinematic                            | : 1,7 mPa.s                       |
| Solubility                                      | : Soluble in water                |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                   |
| Vapour pressure                                 | : Not available                   |
| Vapour pressure at 50°C                         | : Not available                   |
| Density   | : Not available                   |
| Relative density                                | : Not available                   |
| Relative vapour density at 20°C                 | : Not available                   |
| Particle characteristics                        | : Not applicable                  |

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

No additional information available

##### 9.2.2. Other safety characteristics

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions. The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Direct Sunlight, Extreme heat or cold temperatures

#### 10.5. Incompatible materials

Strong acids /Strong bases

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation GB CLP

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

#### Propane-1,2-diol (57-55-6)

|                       |  |
|-----------------------|--|
| LD50 oral rat         | 20 g/kg  |
| LD50 dermal rabbit    | 20800 mg/kg  |
| LC50 Inhalation - Rat | > 44.9 mg/l air Animal: rat, Guideline: other:, Remarks on results: other: |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) Germ  
cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)  
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)  
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

#### 11.2. Information on other hazards

##### 11.2.1. Endocrine disrupting properties

No additional information available

##### 11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)  
Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

: Not classified (Based on available data, the classification criteria are not met)

#### Propane-1,2-diol (57-55-6)

|                      |  |
|----------------------|--|
| LC50 - Fish [1]      | 51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])   |
| LC50 - Fish [2]      | 51600 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |
| EC50 - Crustacea [1] | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  |
| EC50 72h - Algae [1] | 19300 mg/l Test organisms (species): Skeletonema costatum  |
| EC50 72h - Algae [2] | 24200 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | 19000 mg/l (Species: Pseudokirchneriella subcapitata)  |
| EC50 96h - Algae [2] | 19000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI

### 12.3. Bioaccumulative potential

| Muc-Off Road & Gravel Tyre Sealant              |                    |
|---|--------------------|
| Bioaccumulative potential                       | Not established.   |
| Propane-1,2-diol (57-55-6)                      |                    |
| BCF - Fish [1]                                  | (1 dimensionless)  |
| Partition coefficient n-octanol/water (Log Pow) | 0.085 Source: ECHA |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG          | IATA          | ADN           | RID           |
|--|---------------|---------------|---------------|---------------|
| 14.1. UN number or ID number           |               |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name          |               |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es)       |               |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group                    |               |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards            |               |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available |               |               |               |               |

### 14.6. Special precautions for user

# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI

### Transport by sea

Not regulated

### Air transport

Not regulated

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

ADN

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways



# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI

|     |   |
|-----|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate   |
| BCF | Bioconcentration factor   |

# Muc-Off Road & Gravel Tyre Sealant

## Safety Data Sheet

according to requirements of REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| BLV                         | Biological limit value   |
| BOD                         | Biochemical oxygen demand (BOD)  |
| COD                         | Chemical oxygen demand (COD)   |
| DMEL                        | Derived Minimal Effect level   |
| DNEL                        | Derived-No Effect Level  |
| EC-No.                      | European Community number  |
| EC50                        | Effective concentration for 50 percent of test population (median effective concentration) |
| EN                          | European Standard  |
| IARC                        | International Agency for Research on Cancer  |
| IATA                        | International Air Transport Association  |
| IMDG                        | International Maritime Dangerous Goods   |
| LC50                        | Lethal concentration for 50 percent of test population (median lethal concentration)       |
| LD50                        | Lethal dose for 50 percent of test population (median lethal dose)                         |
| LOAEL                       | Lowest Observed Adverse Effect Level   |
| NOAEC                       | No-Observed Adverse Effect Concentration   |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| OECD                        | Organisation for Economic Co-operation and Development                                     |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulation concerning the International Carriage of Dangerous Goods by Railways            |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative   |
| ED                          | Endocrine disrupting properties  |

Safety Data Sheet (SDS), UK

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.