



# Millcool BioSyn 10

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 8/13/2026 Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Millcool BioSyn 10  
UFI : HV0S-401D-A00E-GAE9  
Product code : 8676

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

##### Relevant identified uses

Use of the substance/mixture : Metal working fluids

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

##### Supplier

Millers Oils Ltd  
Hillside Oil Works Hillside Oil works  
Rastrick Common  
GB HD6 3DP Brighouse, West Yorkshire  
United Kingdom  
T +44 (0)1484 713201, F +44 (0)1484 721263  
[h.s@millersoils.co.uk](mailto:h.s@millersoils.co.uk)

#### 1.4. Emergency telephone number

Emergency number : 112

### SECTION 2: Hazards identification

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

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

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

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

Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Contains :

2-phenoxyethanol

Hazard statements (CLP) :

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

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

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contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

Contains no PBT and/or 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 substance(s) are 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

### 3.2. Mixtures

| Name                                                                                                                                         | Product identifier                                                     | %               | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alcohols, C11-14-iso-, C13-rich                                                                                                              | CAS-No.: 68526-86-3<br>EC-No.: 271-235-6<br>REACH-no: 01-2119454259-32 | $\geq 1 - < 30$ | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                                                                                     |
| Ionic Equilibrium (Annex V) Primary Amine Carboxylate                                                                                        | -                                                                      | $\geq 1 - < 10$ | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                                                                                                            |
| Rape oil, reaction products with diethanolamine                                                                                              | CAS-No.: 68187-80-4<br>EC-No.: 269-125-8                               | $\geq 1 - < 10$ | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                                                                                                            |
| SULFONIC ACIDS, PETROLEUM, SODIUM SALTS                                                                                                      | CAS-No.: 68608-26-4<br>EC-No.: 271-781-5<br>REACH-no: 01-2119527859-22 | $\geq 1 - < 10$ | Eye Irrit. 2, H319                                                                                                                                                                   |
| Alkylether Carboxylic Acid Neutralised                                                                                                       | REACH-no: POLYMER                                                      | $\geq 1 - < 10$ | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                                                                                                            |
| 2-phenoxyethanol<br>substance with national workplace exposure limit(s)<br>(DE, FI, PL, SI, CH)                                              | CAS-No.: 122-99-6<br>EC-No.: 204-589-7<br>EC Index-No.: 603-098-00-9   | $\geq 1 - < 10$ | Acute Tox. 4 (Oral), H302<br>STOT SE 3, H335<br>Eye Dam. 1, H318                                                                                                                     |
| 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate<br>substance with national workplace exposure limit(s)<br>(DE, SI, CH) | CAS-No.: 55406-53-6<br>EC-No.: 259-627-5<br>EC Index-No.: 616-212-00-7 | $< 1$           | Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 4 (Oral), H302<br>STOT RE 1, H372<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                                                                                                                       |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                                                                                                 |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.                              |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |

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|                                    |                                                                                                                                    |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after ingestion | : Get medical advice/attention if you feel unwell. Rinse mouth. Do not induce vomiting.                                            |
| Self protection of the first-aider | : First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8). |

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

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation   | : None under normal conditions. |
| Symptoms/effects after skin contact | : Irritation.                   |
| Symptoms/effects after eye contact  | : Eye irritation.               |
| Symptoms/effects after ingestion    | : None under normal conditions. |

### 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   | : Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.  |

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

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

#### For non-emergency personnel

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                                                                            |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. See section 8 of the SDS for more information on personal protective equipment. |

#### For emergency responders

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : This material and its container must be disposed of in a safe way, and as per local legislation. Absorb spilled material with sand or earth.                                        |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

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### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |                                                                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use.                                                   |
| Precautions for safe handling     | : Avoid contact with skin and eyes. Wear personal protective equipment.                                                                      |
| Hygiene measures                  | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight. Protect from frost.                     |
| Storage temperature | : ≤ 30 °C                                                                   |
| Packaging materials | : Always store product in container of same material as original container. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL and PNEC

| Rape oil, reaction products with diethanolamine (68187-80-4) |                           |
|--------------------------------------------------------------|---------------------------|
| DNEL/DMEL (Workers)                                          |                           |
| Long-term - systemic effects, dermal                         | 4.16 mg/kg bodyweight/day |
| Long-term - local effects, dermal                            | 31.2 µg/cm²               |
| Long-term - systemic effects, inhalation                     | 73.44 mg/m³               |
| DNEL/DMEL (General population)                               |                           |
| Long-term - systemic effects, oral                           | 6.25 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation                     | 21.73 mg/m³               |
| Long-term - systemic effects, dermal                         | 2.5 mg/kg bodyweight/day  |
| Long-term - local effects, dermal                            | 18.73 µg/cm²              |
| PNEC (Water)                                                 |                           |
| PNEC aqua (freshwater)                                       | 0.007 mg/l                |
| PNEC aqua (marine water)                                     | 0.0007 mg/l               |
| PNEC aqua (intermittent, freshwater)                         | 0.032 mg/l                |
| PNEC (Sediment)                                              |                           |
| PNEC sediment (freshwater)                                   | 0.2663 mg/kg dwt          |
| PNEC sediment (marine water)                                 | 0.02663 mg/kg dwt         |
| PNEC (Soil)                                                  |                           |
| PNEC soil                                                    | 0.1262 mg/kg dwt          |
| PNEC (STP)                                                   |                           |
| PNEC sewage treatment plant                                  | 0.83 g/l                  |

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| SULFONIC ACIDS, PETROLEUM, SODIUM SALTS (68608-26-4)                               |                             |
|------------------------------------------------------------------------------------|-----------------------------|
| <b>DNEL/DMEL (Workers)</b>                                                         |                             |
| Long-term - systemic effects, dermal                                               | 3.33 mg/kg bodyweight/day   |
| Long-term - systemic effects, inhalation                                           | 0.66 mg/m³                  |
| <b>DNEL/DMEL (General population)</b>                                              |                             |
| Long-term - systemic effects, oral                                                 | 0.8333 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation                                           | 0.33 mg/m³                  |
| Long-term - systemic effects, dermal                                               | 1.667 mg/kg bodyweight/day  |
| <b>PNEC (Water)</b>                                                                |                             |
| PNEC aqua (freshwater)                                                             | 1 mg/l                      |
| PNEC aqua (marine water)                                                           | 1 mg/l                      |
| PNEC aqua (intermittent, freshwater)                                               | 10 mg/l                     |
| <b>PNEC (Sediment)</b>                                                             |                             |
| PNEC sediment (freshwater)                                                         | 723500000 mg/kg dwt         |
| PNEC sediment (marine water)                                                       | 723500000 mg/kg dwt         |
| <b>PNEC (Soil)</b>                                                                 |                             |
| PNEC soil                                                                          | 868700000 mg/kg dwt         |
| <b>PNEC (Oral)</b>                                                                 |                             |
| PNEC oral (secondary poisoning)                                                    | 16.667 mg/kg food           |
| <b>PNEC (STP)</b>                                                                  |                             |
| PNEC sewage treatment plant                                                        | 100 mg/l                    |
| 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate (55406-53-6) |                             |
| <b>DNEL/DMEL (Workers)</b>                                                         |                             |
| Acute - systemic effects, inhalation                                               | 0.07 mg/m³                  |
| Acute - local effects, inhalation                                                  | 1.16 mg/m³                  |
| Long-term - systemic effects, dermal                                               | 2 mg/kg bodyweight/day      |
| Long-term - systemic effects, inhalation                                           | 0.023 mg/m³                 |
| Long-term - local effects, inhalation                                              | 1.16 mg/m³                  |
| <b>PNEC (Water)</b>                                                                |                             |
| PNEC aqua (freshwater)                                                             | 0.0005 mg/l                 |
| PNEC aqua (marine water)                                                           | 0.000046 mg/l               |
| PNEC aqua (intermittent, freshwater)                                               | 0.00053 mg/l                |
| PNEC aqua (intermittent, marine water)                                             | 0.00053 mg/l                |
| <b>PNEC (Sediment)</b>                                                             |                             |
| PNEC sediment (freshwater)                                                         | 0.017 mg/kg dwt             |
| PNEC sediment (marine water)                                                       | 0.0016 mg/kg dwt            |
| <b>PNEC (Soil)</b>                                                                 |                             |
| PNEC soil                                                                          | 0.005 mg/kg dwt             |
| <b>PNEC (STP)</b>                                                                  |                             |
| PNEC sewage treatment plant                                                        | 0.44 mg/l                   |

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| Alcohols, C11-14-iso-, C13-rich (68526-86-3) |                            |
|----------------------------------------------|----------------------------|
| <b>DNEL/DMEL (Workers)</b>                   |                            |
| Long-term - systemic effects, dermal         | 417 mg/kg bodyweight/day   |
| Long-term - systemic effects, inhalation     | 147.9 mg/m³                |
| <b>DNEL/DMEL (General population)</b>        |                            |
| Long-term - systemic effects, oral           | 25 mg/kg bodyweight/day    |
| Long-term - systemic effects, inhalation     | 43.5 mg/m³                 |
| Long-term - systemic effects, dermal         | 250 mg/kg bodyweight/day   |
| <b>PNEC (Water)</b>                          |                            |
| PNEC aqua (freshwater)                       | 0.005 mg/l                 |
| PNEC aqua (marine water)                     | 0.5 µg/l                   |
| PNEC aqua (intermittent, freshwater)         | 0.0042 mg/l                |
| <b>PNEC (Sediment)</b>                       |                            |
| PNEC sediment (freshwater)                   | 0.37 mg/kg dwt             |
| PNEC sediment (marine water)                 | 0.04 mg/kg dwt             |
| <b>PNEC (Soil)</b>                           |                            |
| PNEC soil                                    | 0.15 mg/kg dwt             |
| <b>PNEC (STP)</b>                            |                            |
| PNEC sewage treatment plant                  | 105.3 mg/l                 |
| 2-phenoxyethanol (122-99-6)                  |                            |
| <b>DNEL/DMEL (Workers)</b>                   |                            |
| Long-term - systemic effects, dermal         | 20.83 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation     | 5.7 mg/m³                  |
| Long-term - local effects, inhalation        | 5.7 mg/m³                  |
| <b>DNEL/DMEL (General population)</b>        |                            |
| Acute - systemic effects, oral               | 9.23 mg/kg bodyweight/day  |
| Long-term - systemic effects, oral           | 9.23 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation     | 2.41 mg/m³                 |
| Long-term - systemic effects, dermal         | 10.42 mg/kg bodyweight/day |
| Long-term - local effects, inhalation        | 2.41 mg/m³                 |
| <b>PNEC (Water)</b>                          |                            |
| PNEC aqua (freshwater)                       | 0.943 mg/l                 |
| PNEC aqua (marine water)                     | 0.0943 mg/l                |
| PNEC aqua (intermittent, freshwater)         | 3.44 mg/l                  |
| <b>PNEC (Sediment)</b>                       |                            |
| PNEC sediment (freshwater)                   | 7.2366 mg/kg dwt           |
| PNEC sediment (marine water)                 | 0.7237 mg/kg dwt           |
| <b>PNEC (Soil)</b>                           |                            |
| PNEC soil                                    | 1.31 mg/kg dwt             |

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### 2-phenoxyethanol (122-99-6)

#### PNEC (STP)

PNEC sewage treatment plant

36 mg/l

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Protective goggles (EN 166)

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### Respiratory protection

##### Respiratory protection:

No respiratory protection needed under normal use conditions

#### Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                                                 |                         |
|-------------------------------------------------|-------------------------|
| Physical state                                  | : Liquid                |
| Colour                                          | : Pale amber/yellow.    |
| Odour                                           | : Perceptible odour.    |
| Odour threshold                                 | : Not available         |
| Melting point                                   | : < 0 °C                |
| Freezing point                                  | : Not available         |
| Boiling point                                   | : > 100 °C              |
| Flammability                                    | : Non flammable         |
| Lower explosion limit                           | : Not available         |
| Upper explosion limit                           | : Not available         |
| Flash point                                     | : Non-combustible       |
| Auto-ignition temperature                       | : Not available         |
| Decomposition temperature                       | : Not available         |
| pH                                              | : 9.5 @5%               |
| Viscosity, kinematic                            | : 25 mm <sup>2</sup> /s |
| Solubility                                      | : Emulsifies in water.  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available         |
| Vapour pressure                                 | : Not available         |
| Vapour pressure at 50°C                         | : Not available         |

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|                                 |                                   |
|---------------------------------|-----------------------------------|
| Density                         | : 1.05 g/cm <sup>3</sup> @ 15.6oC |
| Relative density                | : Not available                   |
| Relative vapour density at 20°C | : Not available                   |
| Particle characteristics        | : Not applicable                  |

### 9.2. Other information

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.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Rape oil, reaction products with diethanolamine (68187-80-4)                       |                                                                                                              |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                                                                      | 10000 mg/kg bodyweight Animal: rat, Animal sex: male                                                         |
| LD50 dermal rabbit                                                                 | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:                                                    |
| SULFONIC ACIDS, PETROLEUM, SODIUM SALTS (68608-26-4)                               |                                                                                                              |
| LD50 dermal rabbit                                                                 | > 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                |
| LC50 Inhalation - Rat                                                              | > 1.9 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)                        |
| 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate (55406-53-6) |                                                                                                              |
| LD50 dermal rabbit                                                                 | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity)                      |
| Alcohols, C11-14-iso-, C13-rich (68526-86-3)                                       |                                                                                                              |
| LD50 oral rat                                                                      | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method) |
| LD50 dermal rat                                                                    | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                   |



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| 2-phenoxyethanol (122-99-6)                                                        |                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 dermal rat                                                                    | 14391 mg/kg bodyweight Animal: rat                                                                                                                                                                      |
| LD50 dermal rabbit                                                                 | > 2214 mg/kg bodyweight Animal: rabbit, Guideline: other:                                                                                                                                               |
| LC50 Inhalation - Rat                                                              | > 1 mg/l air Animal: rat, Guideline: other:                                                                                                                                                             |
| Skin corrosion/irritation                                                          | : Causes skin irritation.<br>pH: 9.5 @5%                                                                                                                                                                |
| Serious eye damage/irritation                                                      | : Causes serious eye irritation.<br>pH: 9.5 @5%                                                                                                                                                         |
| Respiratory or skin sensitisation                                                  | : Not classified                                                                                                                                                                                        |
| Germ cell mutagenicity                                                             | : Not classified                                                                                                                                                                                        |
| Carcinogenicity                                                                    | : Not classified                                                                                                                                                                                        |
| Reproductive toxicity                                                              | : Not classified                                                                                                                                                                                        |
| 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate (55406-53-6) |                                                                                                                                                                                                         |
| LOAEL (animal/male, F0/P)                                                          | 50.5 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)           |
| LOAEL (animal/female, F0/P)                                                        | 49.8 – 101.2 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| NOAEL (animal/male, F0/P)                                                          | 20.7 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)           |
| NOAEL (animal/female, F0/P)                                                        | 20.2 – 39.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)  |
| 2-phenoxyethanol (122-99-6)                                                        |                                                                                                                                                                                                         |
| LOAEL (animal/male, F1)                                                            | ≈ 1875 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: other:                                                                                                                              |
| LOAEL (animal/female, F1)                                                          | ≈ 1875 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: other:                                                                                                                            |
| NOAEL (animal/female, F0/P)                                                        | ≈ 1875 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: other:                                                                                                                            |
| STOT-single exposure                                                               | : Not classified                                                                                                                                                                                        |
| 2-phenoxyethanol (122-99-6)                                                        |                                                                                                                                                                                                         |
| STOT-single exposure                                                               | May cause respiratory irritation.                                                                                                                                                                       |
| STOT-repeated exposure                                                             | : Not classified                                                                                                                                                                                        |
| Rape oil, reaction products with diethanolamine (68187-80-4)                       |                                                                                                                                                                                                         |
| LOAEL (dermal, rat/rabbit, 90 days)                                                | 50 mg/kg bodyweight Animal: rat                                                                                                                                                                         |
| NOAEL (oral, rat, 90 days)                                                         | > 750 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)                                                                                 |
| SULFONIC ACIDS, PETROLEUM, SODIUM SALTS (68608-26-4)                               |                                                                                                                                                                                                         |
| NOAEL (oral, rat, 90 days)                                                         | 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)                                                                                   |
| NOAEL (dermal, rat/rabbit, 90 days)                                                | > 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)                                                                                     |
| 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate (55406-53-6) |                                                                                                                                                                                                         |
| LOAEL (dermal, rat/rabbit, 90 days)                                                | 500 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days), Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)                                |

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| 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate (55406-53-6) |                                                                                                                                                                          |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOAEC (inhalation, rat, dust/mist/fume, 90 days)                                   | 0.0067 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)                                                                |
| NOAEL (oral, rat, 90 days)                                                         | 20 mg/kg bodyweight Animal: rat, Guideline: other., Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)                                  |
| NOAEL (dermal, rat/rabbit, 90 days)                                                | 200 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days), Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days)                                   | 0.00116 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)                                                               |
| STOT-repeated exposure                                                             | Causes damage to organs (larynx) through prolonged or repeated exposure.                                                                                                 |

| Alcohols, C11-14-iso-, C13-rich (68526-86-3) |                                                                                                                                           |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days)                   | ≥ 300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

| 2-phenoxyethanol (122-99-6)         |                                                                                                                                                                                                                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days)          | > 700 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| LOAEL (dermal, rat/rabbit, 90 days) | > 500 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)                                                                                                                                                                                           |
| NOAEL (dermal, rat/rabbit, 90 days) | 500 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)                                                                                                                                                                                             |

Aspiration hazard : Not classified

| Millcool BioSyn 10                           |                                                                                              |
|----------------------------------------------|----------------------------------------------------------------------------------------------|
| Viscosity, kinematic                         | 25 mm <sup>2</sup> /s                                                                        |
| Alcohols, C11-14-iso-, C13-rich (68526-86-3) |                                                                                              |
| Viscosity, kinematic                         | 48 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' |

### 11.2. Information on other hazards

#### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : 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 substance(s) are 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 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

| Rape oil, reaction products with diethanolamine (68187-80-4) |                                                                                   |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| LC50 - Fish [1]                                              | 5.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1]                                         | ≈ 3.2 mg/l Test organisms (species): Daphnia magna                                |

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| Rape oil, reaction products with diethanolamine (68187-80-4)                       |                                                                                                                                             |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| LOEC (chronic)                                                                     | 0.24 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                          |
| NOEC chronic fish                                                                  | 0.32 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'                                   |
| SULFONIC ACIDS, PETROLEUM, SODIUM SALTS (68608-26-4)                               |                                                                                                                                             |
| EC50 72h - Algae [1]                                                               | > 1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1]                                                               | > 1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| Alcohols, C11-14-iso-, C13-rich (68526-86-3)                                       |                                                                                                                                             |
| LC50 - Fish [1]                                                                    | 0.42 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                                                    |
| EC50 72h - Algae [1]                                                               | 2.6 mg/l Test organisms (species): other:                                                                                                   |
| EC50 72h - Algae [2]                                                               | 3.2 mg/l Test organisms (species): other:                                                                                                   |
| NOEC (chronic)                                                                     | 0.052 mg/l Test organisms (species): Daphnia magna Duration: '16 d'                                                                         |
| NOEC chronic fish                                                                  | 0.047 mg/l Test organisms (species): other: Duration: '30 d'                                                                                |
| 2-phenoxyethanol (122-99-6)                                                        |                                                                                                                                             |
| LC50 - Fish [1]                                                                    | 344 mg/l Test organisms (species): Pimephales promelas                                                                                      |
| EC50 - Crustacea [1]                                                               | > 500 mg/l Test organisms (species): Daphnia magna                                                                                          |
| EC50 72h - Algae [1]                                                               | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                       |
| 12.2. Persistence and degradability                                                |                                                                                                                                             |
| Millcool BioSyn 10                                                                 |                                                                                                                                             |
| Persistence and degradability                                                      | Not established.                                                                                                                            |
| Ionic Equilibrium (Annex V) Primary Amine Carboxylate                              |                                                                                                                                             |
| Persistence and degradability                                                      | Not rapidly degradable                                                                                                                      |
| Rape oil, reaction products with diethanolamine (68187-80-4)                       |                                                                                                                                             |
| Persistence and degradability                                                      | Not rapidly degradable                                                                                                                      |
| SULFONIC ACIDS, PETROLEUM, SODIUM SALTS (68608-26-4)                               |                                                                                                                                             |
| Persistence and degradability                                                      | Not rapidly degradable                                                                                                                      |
| Alkylether Carboxylic Acid Neutralised                                             |                                                                                                                                             |
| Persistence and degradability                                                      | Not rapidly degradable                                                                                                                      |
| 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate (55406-53-6) |                                                                                                                                             |
| Persistence and degradability                                                      | Not rapidly degradable                                                                                                                      |
| Alcohols, C11-14-iso-, C13-rich (68526-86-3)                                       |                                                                                                                                             |
| Persistence and degradability                                                      | Not rapidly degradable                                                                                                                      |
| 2-phenoxyethanol (122-99-6)                                                        |                                                                                                                                             |
| Persistence and degradability                                                      | Not rapidly degradable                                                                                                                      |

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### 12.3. Bioaccumulative potential

#### Millcool BioSyn 10

|                           |                                |
|---------------------------|--------------------------------|
| Bioaccumulative potential | Low bioaccumulation potential. |
|---------------------------|--------------------------------|

### 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

|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Adverse effects on the environment caused by endocrine disrupting properties | : 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 substance(s) are 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 %. |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                                         |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                                                                           |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Additional information                     | : Do not re-use empty containers.                                                                                                                                                                                                       |
| Ecological waste information               | : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself. |

## SECTION 14: Transport information

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

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

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### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### 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

#### 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 (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Explosives Precursors Regulation (EU 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 (EC 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)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

#### Abbreviations and acronyms:

|         |                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------|
| ACGIH   | American Conference of Governmental Industrial Hygienists                                       |
| ADN     | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE     | Acute Toxicity Estimate                                                                         |
| BCF     | Bioconcentration factor                                                                         |
| BLV     | Biological limit value                                                                          |
| BOD     | Biochemical oxygen demand (BOD)                                                                 |
| CAS-No. | Chemical Abstracts Service number                                                               |
| CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD     | Chemical oxygen demand (COD)                                                                    |
| CSA     | Chemical safety assessment                                                                      |
| DMEL    | Derived Minimal Effect level                                                                    |
| DNEL    | Derived-No Effect Level                                                                         |
| EC-No.  | European Community number                                                                       |
| EC50    | Median effective concentration                                                                  |
| ED      | Endocrine disruptor                                                                             |
| EN      | European Standard                                                                               |
| EWC     | European waste catalogue                                                                        |
| IARC    | International Agency for Research on Cancer                                                     |
| IATA    | International Air Transport Association                                                         |
| IMDG    | International Maritime Dangerous Goods                                                          |
| LC50    | Median lethal concentration                                                                     |
| LD50    | Median lethal dose                                                                              |
| LOAEL   | Lowest Observed Adverse Effect Level                                                            |
| Log Kow | Partition coefficient n-octanol/water (Log Kow)                                                 |
| Log Pow | Partition coefficient n-octanol/water (Log Pow)                                                 |
| MAK     | maximum workplace concentration                                                                 |
| NOAEC   | No-Observed Adverse Effect Concentration                                                        |
| NOAEL   | No-Observed Adverse Effect Level                                                                |
| NOEC    | No-Observed Effect Concentration                                                                |
| N.O.S.  | Not Otherwise Specified                                                                         |
| OECD    | Organisation for Economic Co-operation and Development                                          |
| OEL     | Occupational Exposure Limit                                                                     |
| OSHA    | Occupational Safety Health Administration                                                       |
| PBT     | Persistent Bioaccumulative Toxic                                                                |
| PNEC    | Predicted No-Effect Concentration                                                               |
| PPE     | Personal protection equipment                                                                   |

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### Abbreviations and acronyms:

|      |                                                                              |
|------|------------------------------------------------------------------------------|
| RID  | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS  | Safety Data Sheet                                                            |
| STP  | Sewage treatment plant                                                       |
| TF   | Technical function                                                           |
| ThOD | Theoretical oxygen demand (ThOD)                                             |
| TLM  | Median Tolerance Limit                                                       |
| TWA  | Time Weighted Average                                                        |
| VOC  | Volatile Organic Compounds                                                   |
| vPvB | Very Persistent and Very Bioaccumulative                                     |
| UFI  | Unique Formula Identifier                                                    |

### Full text of H- and EUH-statements:

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3                                                        |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4                                                          |
| Aquatic Acute 1           | Hazardous to the aquatic environment – Acute Hazard, Category 1                            |
| Aquatic Chronic 1         | Hazardous to the aquatic environment – Chronic Hazard, Category 1                          |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1                                              |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2                                              |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2                                                      |
| Skin Sens. 1              | Skin sensitisation, Category 1                                                             |
| STOT RE 1                 | Specific target organ toxicity – Repeated exposure, Category 1                             |
| STOT SE 3                 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H302                      | Harmful if swallowed.                                                                      |
| H315                      | Causes skin irritation.                                                                    |
| H317                      | May cause an allergic skin reaction.                                                       |
| H318                      | Causes serious eye damage.                                                                 |
| H319                      | Causes serious eye irritation.                                                             |
| H331                      | Toxic if inhaled.                                                                          |
| H335                      | May cause respiratory irritation.                                                          |
| H372                      | Causes damage to organs through prolonged or repeated exposure.                            |
| H400                      | Very toxic to aquatic life.                                                                |
| H410                      | Very toxic to aquatic life with long lasting effects.                                      |
| H412                      | Harmful to aquatic life with long lasting effects.                                         |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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.