



# Alpine Red Ready Mixed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 12/16/2013 Revision date: 12/20/2023 Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Alpine Red Ready Mixed  
UFI : 1HMP-T09M-200U-MPSE  
Product code : 7810

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Anti-freezing agents

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

Millers Oils Ltd  
Hillside Oilworks Rastrick Common  
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 : +44 (0)1484 713201

| Country        | Organisation/Company      | Address | Emergency number | Comment          |
|----------------|---------------------------|---------|------------------|------------------|
| United Kingdom | NHS 111/NHS 24/NHS Direct |         | 111<br>0845 4647 | or call a doctor |

### SECTION 2: Hazards identification

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

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

Acute toxicity (oral), Category 4 H302  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Full text of H- and EUH-statements: see section 16

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

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS08

Signal word (CLP)

: Warning

Contains

: ethanediol; ethylene glycol; 2,2' -oxybisethanol; diethylene glycol

Hazard statements (CLP)

: H302 - Harmful if swallowed.

H373 - May cause damage to organs through prolonged or repeated exposure.

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Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
P330 - Rinse mouth.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

### 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 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

### 3.2. Mixtures

| Name                                                                                                                                                                                                                                                                        | Product identifier                                                                                 | %                | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------|
| ethanediol; ethylene glycol<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, RS, CH); substance with a Community workplace exposure limit | CAS-No.: 107-21-1<br>EC-No.: 203-473-3<br>EC Index-No.: 603-027-00-1<br>REACH-no: 01-2119456816-28 | $\geq 30 - < 70$ | Acute Tox. 4 (Oral), H302                                       |
| 2,2' -oxybisethanol; diethylene glycol<br>substance with national workplace exposure limit(s)<br>(BG, DE, DK, EE, GB, HR, IE, LT, LV, PL, RO, SE, SI, SK, IS, CH)                                                                                                           | CAS-No.: 111-46-6<br>EC-No.: 203-872-2<br>EC Index-No.: 603-140-00-6<br>REACH-no: 01-2119457857-21 | $< 10$           | Acute Tox. 4 (Oral), H302                                       |
| POTASSIUM 2-ETHYLHEXANOATE                                                                                                                                                                                                                                                  | CAS-No.: 3164-85-0<br>EC-No.: 221-625-7<br>REACH-no: 01-2119980714-29                              | $< 10$           | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Repr. 2, H361d       |

### Specific concentration limits:

| Name                       | Product identifier                                                    | Specific concentration limits                                                                                                                                                      |
|----------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| POTASSIUM 2-ETHYLHEXANOATE | CAS-No.: 3164-85-0<br>EC-No.: 221-625-7<br>REACH-no: 01-2119980714-29 | ( $0.5 \leq C \leq 2$ ) Skin Irrit. 2, H315<br>( $0.5 \leq C \leq 2$ ) Eye Irrit. 2, H319<br>( $2 \leq C \leq 5$ ) Skin Corr. 1B, H314<br>( $5 \leq C < 100$ ) Skin Corr. 1A, H314 |

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.

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|                                       |                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse.                             |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| First-aid measures after ingestion    | : Rinse mouth. Get medical advice/attention if you feel unwell. Do not induce vomiting.                                |

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

|                                     |                                                                  |
|-------------------------------------|------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : None under normal use.                                         |
| Symptoms/effects after skin contact | : None under normal conditions.                                  |
| Symptoms/effects after eye contact  | : None under normal conditions.                                  |
| Symptoms/effects after ingestion    | : Harmful if swallowed. Ingestion may cause nausea and vomiting. |

### 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 | : Strong water jet.                 |

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

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--------------------------------------------------|--------------------------------|

### 5.3. Advice for firefighters

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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

#### 6.1.1. For non-emergency personnel

|                      |                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Emergency procedures | : Ventilate spillage area. See section 8 of the SDS for more information on personal protective equipment. |
|----------------------|------------------------------------------------------------------------------------------------------------|

#### 6.1.2. 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 | : 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. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. |
| 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.                                                                                                |

### 6.4. Reference to other sections

For further information refer to section 13.

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### 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.  
Hygiene measures : 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

Storage conditions : Store in a well-ventilated place. Keep cool.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

##### ethanediol; ethylene glycol (107-21-1)

##### EU - Indicative Occupational Exposure Limit (IOEL)

|                      |                                 |
|----------------------|---------------------------------|
| Local name           | Ethylene glycol                 |
| IOEL TWA             | 52 mg/m <sup>3</sup>            |
| IOEL TWA [ppm]       | 20 ppm                          |
| IOEL STEL            | 104 mg/m <sup>3</sup>           |
| IOEL STEL [ppm]      | 40 ppm                          |
| Remark               | Skin                            |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |

##### United Kingdom - Occupational Exposure Limits

|                           |                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name                | Ethane-1,2-diol                                                                                                                                             |
| WEL TWA (OEL TWA) [1]     | 10 mg/m <sup>3</sup> particulate<br>52 mg/m <sup>3</sup> vapour                                                                                             |
| WEL TWA (OEL TWA) [2]     | 20 ppm vapour                                                                                                                                               |
| WEL STEL (OEL STEL)       | 104 mg/m <sup>3</sup> vapour                                                                                                                                |
| WEL STEL (OEL STEL) [ppm] | 40 ppm vapour                                                                                                                                               |
| Remark                    | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference      | EH40/2005 (Fourth edition, 2020). HSE                                                                                                                       |

##### 2,2'-oxybisethanol; diethylene glycol (111-46-6)

##### United Kingdom - Occupational Exposure Limits

|                       |                                       |
|-----------------------|---------------------------------------|
| Local name            | 2,2'-Oxydiethanol                     |
| WEL TWA (OEL TWA) [1] | 101 mg/m <sup>3</sup>                 |
| WEL TWA (OEL TWA) [2] | 23 ppm                                |
| Regulatory reference  | EH40/2005 (Fourth edition, 2020). HSE |

##### 8.1.2. Recommended monitoring procedures

No additional information available

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### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

| ethanediol; ethylene glycol (107-21-1)            |                          |
|---------------------------------------------------|--------------------------|
| DNEL/DMEL (Workers)                               |                          |
| Long-term - systemic effects, dermal              | 106 mg/kg bodyweight/day |
| Long-term - local effects, inhalation             | 35 mg/m <sup>3</sup>     |
| DNEL/DMEL (General population)                    |                          |
| Long-term - systemic effects, dermal              | 53 mg/kg bodyweight/day  |
| Long-term - local effects, inhalation             | 7 mg/m <sup>3</sup>      |
| PNEC (Water)                                      |                          |
| PNEC aqua (freshwater)                            | 10 mg/l                  |
| PNEC aqua (marine water)                          | 1 mg/l                   |
| PNEC aqua (intermittent, freshwater)              | 10 mg/l                  |
| PNEC aqua (intermittent, marine water)            | 10 mg/l                  |
| PNEC (Sediment)                                   |                          |
| PNEC sediment (freshwater)                        | 37 mg/kg dwt             |
| PNEC sediment (marine water)                      | 3.7 mg/kg dwt            |
| PNEC (Soil)                                       |                          |
| PNEC soil                                         | 1.53 mg/kg dwt           |
| PNEC (STP)                                        |                          |
| PNEC sewage treatment plant                       | 199.5 mg/l               |
| 2,2' -oxybisethanol; diethylene glycol (111-46-6) |                          |
| DNEL/DMEL (Workers)                               |                          |
| Long-term - systemic effects, dermal              | 43 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation          | 44 mg/m <sup>3</sup>     |
| Long-term - local effects, inhalation             | 60 mg/m <sup>3</sup>     |
| DNEL/DMEL (General population)                    |                          |
| Long-term - systemic effects, inhalation          | 12 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal              | 21 mg/kg bodyweight/day  |
| Long-term - local effects, inhalation             | 12 mg/m <sup>3</sup>     |
| PNEC (Water)                                      |                          |
| PNEC aqua (freshwater)                            | 10 mg/l                  |
| PNEC aqua (marine water)                          | 1 mg/l                   |
| PNEC aqua (intermittent, freshwater)              | 10 mg/l                  |
| PNEC (Sediment)                                   |                          |
| PNEC sediment (freshwater)                        | 20.9 mg/kg dwt           |
| PNEC sediment (marine water)                      | 2.09 mg/kg dwt           |
| PNEC (Soil)                                       |                          |
| PNEC soil                                         | 1.53 mg/kg dwt           |

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### 2,2' -oxybisethanol; diethylene glycol (111-46-6)

#### PNEC (STP)

|                             |            |
|-----------------------------|------------|
| PNEC sewage treatment plant | 199.5 mg/l |
|-----------------------------|------------|

### POTASSIUM 2-ETHYLHEXANOATE (3164-85-0)

#### PNEC (Water)

|                                      |            |
|--------------------------------------|------------|
| PNEC aqua (freshwater)               | 0.36 mg/l  |
| PNEC aqua (marine water)             | 0.036 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.493 mg/l |

#### PNEC (Sediment)

|                              |                 |
|------------------------------|-----------------|
| PNEC sediment (freshwater)   | 6.37 mg/kg dwt  |
| PNEC sediment (marine water) | 0.637 mg/kg dwt |

#### PNEC (Soil)

|           |                |
|-----------|----------------|
| PNEC soil | 1.06 mg/kg dwt |
|-----------|----------------|

#### PNEC (STP)

|                             |           |
|-----------------------------|-----------|
| PNEC sewage treatment plant | 71.7 mg/l |
|-----------------------------|-----------|

#### 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 symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Protective gloves

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

No respiratory protection needed under normal use conditions

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

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### SECTION 9: Physical and chemical properties

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

|                                                 |                  |
|-------------------------------------------------|------------------|
| Physical state                                  | : Liquid         |
| Colour                                          | : red.           |
| Odour                                           | : odourless.     |
| Odour threshold                                 | : Not available  |
| Melting point                                   | : Not applicable |
| Freezing point                                  | : Not available  |
| Boiling point                                   | : Not available  |
| Flammability                                    | : Non flammable. |
| Explosive limits                                | : Not available  |
| Lower explosion limit                           | : Not available  |
| Upper explosion limit                           | : Not available  |
| Flash point                                     | : > 100          |
| Auto-ignition temperature                       | : Not available  |
| Decomposition temperature                       | : Not available  |
| pH                                              | : Not available  |
| Viscosity, kinematic                            | : Not available  |
| Solubility                                      | : Miscible.      |
| 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                                | : 1.067          |
| 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.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Oxidizing agent. Strong acids.

#### 10.6. Hazardous decomposition products

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

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### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

##### Alpine Red Ready Mixed

|                |                          |
|----------------|--------------------------|
| ATE CLP (oral) | 859.904 mg/kg bodyweight |
|----------------|--------------------------|

##### ethanediol; ethylene glycol (107-21-1)

|               |                                   |
|---------------|-----------------------------------|
| LD50 oral rat | 7712 mg/kg bodyweight Animal: rat |
|---------------|-----------------------------------|

##### POTASSIUM 2-ETHYLHEXANOATE (3164-85-0)

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| LD50 oral rat   | 2043 mg/kg                                                                                 |
| LD50 oral       | 2400 – 2400 mg/kg bodyweight Animal: other:                                                |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation : Not classified

##### ethanediol; ethylene glycol (107-21-1)

|    |     |
|----|-----|
| pH | 8.4 |
|----|-----|

Serious eye damage/irritation : Not classified

##### ethanediol; ethylene glycol (107-21-1)

|    |     |
|----|-----|
| pH | 8.4 |
|----|-----|

Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

##### 2,2' -oxybisethanol; diethylene glycol (111-46-6)

|                                               |                                                       |
|-----------------------------------------------|-------------------------------------------------------|
| NOAEL (chronic, oral, animal/male, 2 years)   | 1210 mg/kg bodyweight Animal: rat, Animal sex: male   |
| NOAEL (chronic, oral, animal/female, 2 years) | 1160 mg/kg bodyweight Animal: rat, Animal sex: female |

Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

##### 2,2' -oxybisethanol; diethylene glycol (111-46-6)

|                            |                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days) | 40000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|

##### POTASSIUM 2-ETHYLHEXANOATE (3164-85-0)

|                                                  |                                                                           |
|--------------------------------------------------|---------------------------------------------------------------------------|
| NOAEL (subchronic, oral, animal/male, 90 days)   | 180 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: other:   |
| NOAEL (subchronic, oral, animal/female, 90 days) | 205 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: other: |

Aspiration hazard : Not classified

#### 11.2. Information on other hazards

##### 11.2.1. 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 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 %

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### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                                                        |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                                                        |
| Not rapidly degradable                                    |                                                                                                                         |

| ethanediol; ethylene glycol (107-21-1) |                                                                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                        | > 72860 mg/l Test organisms (species): Pimephales promelas                                                  |
| EC50 - Crustacea [1]                   | > 100 mg/l Test organisms (species): Daphnia magna                                                          |
| ErC50 algae                            | 6500 – 13000 mg/l                                                                                           |
| NOEC (chronic)                         | ≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d' |
| NOEC chronic fish                      | 15380 mg/l                                                                                                  |

| 2,2' -oxybisethanol; diethylene glycol (111-46-6) |                                                                                                                                                   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                                   | 75200 mg/l Test organisms (species): Pimephales promelas                                                                                          |
| EC50 96h - Algae [1]                              | 6500 – 13000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [2]                              | 9362 mg/l Test organisms (species): other:                                                                                                        |
| NOEC (chronic)                                    | ≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'                                       |

| POTASSIUM 2-ETHYLHEXANOATE (3164-85-0) |                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                        | > 100 mg/l Test organisms (species): Oryzias latipes                                                 |
| EC50 - Crustacea [1]                   | 910 mg/l Test organisms (species): Daphnia magna                                                     |
| EC50 72h - Algae [1]                   | 49.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| LOEC (chronic)                         | 63 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                     |
| NOEC (chronic)                         | 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                     |

### 12.2. Persistence and degradability

| Alpine Red Ready Mixed        |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Alpine Red Ready Mixed    |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

### 12.4. Mobility in soil

No additional information available

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### 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 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 %.

### 12.7. Other adverse effects

No additional information available

## 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 : Avoid release to the environment. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 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                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <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  |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

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### 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 |
| 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)                                                                 |
| COD  | Chemical oxygen demand (COD)                                                                    |
| DMEL | Derived Minimal Effect level                                                                    |
| DNEL | Derived-No Effect Level                                                                         |

# Alpine Red Ready Mixed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| EC-No.                      | European Community number                                                    |
| EC50                        | Median effective concentration                                               |
| EN                          | European Standard                                                            |
| 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                                         |
| 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                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| 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                                              |

| Full text of H- and EUH-statements: |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                      |
| H302                                | Harmful if swallowed.                                              |
| H314                                | Causes severe skin burns and eye damage.                           |
| H315                                | Causes skin irritation.                                            |
| H318                                | Causes serious eye damage.                                         |
| H319                                | Causes serious eye irritation.                                     |
| H361d                               | Suspected of damaging the unborn child.                            |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| Repr. 2                             | Reproductive toxicity, Category 2                                  |

# Alpine Red Ready Mixed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |                                                        |
|-------------------------------------|--------------------------------------------------------|
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                  |

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.