# Safety Data Sheet
**according to Regulation (EC) No. 1907/2006 (REACH)**
**according to Regulation (EU) 2020/878**



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

1.1. **product identifiers**

| | |
|---|---|
| Article No. (manufacturer/supplier) | 9619 |
| Trade name/designation | Delayer Slow Down<br>UFI: 5410-R0SR-T00D-EA9D |

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

**Relevant identified uses:**
Additional Component

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

**manufacturer**
Saicos Colour GmbH
Carl-Zeiss-Str.3 Telephone: +49 (0) 2583 3037-0
D-48336 Sassenberg Telefax: +49 (0) 2583 3037-10

**Department responsible for information:**
E-mail (competent person) info@saicos.de

1.4. **Emergency telephone number**
Giftnotruf Berlin: +49 30 30686 700 Beratung in Deutsch und Englisch

## SECTION 2: Hazards identification

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

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

| | | |
|---|---|---|
| Eye Irrit. 2 / H319 | Serious eye damage/eye irritation | Causes serious eye irritation. |

2.2. **Label elements**

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

**Hazard pictograms**

**Warning**

**Hazard statements**

| | |
|---|---|
| H319 | Causes serious eye irritation. |

**Precautionary statements**

| | |
|---|---|
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves and eye protection/face protection. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

**Hazard components for labelling**
not applicable

**Supplemental hazard information**
not applicable

2.3. **Other hazards**

No information available.

## SECTION 3: Composition/information on ingredients

3.2. **Mixtures**

**Description** Preparations containing solvent

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

| EC No.<br>CAS No.<br>Index No. | REACH No.<br>Designation<br>classification // Remark | weight-% |
|---|---|---|

| | | |
|---|---|---|
| 203-961-6 | 01-2119475104-44 | |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol | 12,5 - 20 |
| 603-096-00-8 | Eye Irrit. 2 H319 | |

**Additional information**
Full text of classification: see section 16

## SECTION 4: First aid measures

4.1. **Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**
Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**Following ingestion**
If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. **Indication of any immediate medical attention and special treatment needed**
First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

5.1. **Extinguishing media**

**Suitable extinguishing media**
alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**
strong water jet

5.2. **Special hazards arising from the substance or mixture**
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. **Advice for firefighters**
Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. **Environmental precautions**
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. **Methods and material for containment and cleaning up**
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**
Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

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

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

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

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

**Occupational exposure limit values:**

2-(2-butoxyethoxy)ethanol
Index No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

WEL, TWA: 67,5 mg/m3; 10 ppm
WEL, STEL: 101,2 mg/m3; 15 ppm

**Additional information**

TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

**DNEL:**

2-(2-butoxyethoxy)ethanol
Index No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5
DNEL long-term dermal (systemic), Workers: 20 mg/kg
DNEL long-term inhalative (local), Workers: 67,5 mg/m³
DNEL long-term inhalative (systemic), Workers: 67,5 mg/m³
DNEL long-term oral (repeated), Consumer: 1,25 mg/kg
DNEL long-term dermal (systemic), Consumer: 10 mg/kg
DNEL acute inhalative (local), Consumer: 50,6 mg/m³

**PNEC:**

2-(2-butoxyethoxy)ethanol
Index No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5
PNEC aquatic, freshwater: 1 mg/L
PNEC aquatic, marine water: 0,1 mg/L
PNEC aquatic, intermittent release: 3,9 mg/L
PNEC sediment, freshwater: 4 mg/kg
PNEC sediment, marine water: 0,4 mg/kg

PNEC, soil: 0,4 mg/kg
PNEC sewage treatment plant (STP): 200 mg/L

8.2. **Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)
Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state:** | **Liquid** |
| **Colour:** | **Colour** |
| **Odour:** | **characteristic** |
| **Odour threshold:** | **not applicable** |
| **Melting point/freezing point:** | **not applicable** |
| **Initial boiling point and boiling range:** | **100 °C**<br>Source: water |
| **Flammability:** | not applicable |
| **Lower and upper explosion limit:** | |
| **Lower explosion limit:** | **2,6 Vol-%** |
| **Upper explosion limit:** | **12,6 Vol-%**<br>Source: 1,2-propanediol |
| **Flash point:** | **not applicable** |
| **Auto-ignition temperature:** | **210 °C**<br>Source: 2-(2-butoxyethoxy)ethanol |
| **Decomposition temperature:** | **not applicable** |
| **pH at 20 °C:** | **4,5 - 6 / 100,0 weight-%** |
| **Kinematic viscosity (40°C):** | **< 135 mm²/s** |
| **Viscosity at 20 °C:** | **30 s 4 mm**<br>Method: DIN 53211 |
| **Solubility(ies):** | |
| **Water solubility at 20 °C:** | **completely miscible** |
| **Partition coefficient: n-octanol/water:** | **see section 12** |
| **Vapour pressure at 20 °C:** | **11,537 mbar** |

Method: calculated.

**Density and/or relative density:**
**Density at 20 °C:** **1,00 g/cm³**

**Relative vapour density:** **not applicable**

**particle characteristics:** **not applicable**

9.2. **Other information**

**Solid content:** **0 weight-%**

**solvent content:**
**Organic solvents:** **50 weight-%**
**Water:** **50 weight-%**

## SECTION 10: Stability and reactivity

10.1. **Reactivity**
No information available.

10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**
Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**
not applicable

10.6. **Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

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

**Acute toxicity**

2-(2-butoxyethoxy)ethanol
oral, LD50, Rat: 2410 mg/kg
dermal, LD50, Rabbit: 2764 mg/kg

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes serious eye irritation.

2-(2-butoxyethoxy)ethanol
Skin (4 h)
slightly irritant
eyes
Irritant — skin irritation and eye damage

**Respiratory or skin sensitisation**

2-(2-butoxyethoxy)ethanol
Skin, Guinea pig: ; Evaluation not sensitising.
Method: OECD 406

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Based on available data, the classification criteria are not met.

**STOT-single exposure; STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane

and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. **Information on other hazards**

**Endocrine disrupting properties**
No information available.

## SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. **Toxicity**

2-(2-butoxyethoxy)ethanol
Fish toxicity, LC50, Lepomis macrochirus (Bluegill): 1300 mg/L (96 h)
Algae toxicity, ErC50, Scenedesmus subspicatus: > 100 mg/L (96 h)

12.2. **Persistence and degradability**

2-(2-butoxyethoxy)ethanol
, Photolysis: 50 Degradation rate (11 day(s)); Evaluation Readily biodegradable (according to OECD criteria).

12.3. **Bioaccumulative potential**

2-(2-butoxyethoxy)ethanol
Partition coefficient: n-octanol/water: 1

**Bioconcentration factor (BCF)**

2-(2-butoxyethoxy)ethanol
Bioconcentration factor (BCF): < 3 ; Evaluation Low

12.4. **Mobility in soil**
Toxicological data are not available.

12.5. **Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. **Endocrine disrupting properties**
No information available.

12.7. **Other adverse effects**
No information available.

## SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

**Appropriate disposal / Product**
**Recommendation**
Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

**List of proposed waste codes/waste designations in accordance with EWC**
140603* other solvents and solvent mixtures
*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package**
**Recommendation**
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

**No dangerous good in sense of this transport regulation.**

14.1. **UN number or ID number**

not applicable

14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)**

not applicable

14.4. **Packing group**

not applicable

14.5. **Environmental hazards**

| | |
|---|---|
| Land transport (ADR/RID) | not applicable |
| Marine pollutant | not applicable |

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**

| | |
|---|---|
| Tunnel restriction code | - |

**Sea transport (IMDG)**

| | |
|---|---|
| EmS-No. | not applicable |

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

No transport as bulk according IBC - Code.

## SECTION 15: Regulatory information

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**
VOC-value (in g/L): 500

**National regulations**

**Restrictions of occupation**
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**
**For the following substances of this mixture a chemical safety assessment has been carried out:**

| EC No.<br>CAS No. | Designation | REACH No. |
|---|---|---|
| 203-961-6<br>112-34-5 | 2-(2-butoxyethoxy)ethanol | 01-2119475104-44 |

## SECTION 16: Other information

**Full text of classification in section 3**

| | | |
|---|---|---|
| Eye Irrit. 2 / H319 | Serious eye damage/eye irritation | Causes serious eye irritation. |

**Classification procedure**
Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| | | |
|---|---|---|
| Eye Irrit. 2 | Serious eye damage/eye irritation | Calculation method. |

**Abbreviations and acronyms**

| | |
|---|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| OEL | Occupational Exposure Limit Value |
| BLV | Biological Limit Value |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| CMR | Carcinogenic, Mutagenic and Reprotoxic |
| DIN | German Institute for Standardization / German industrial standard |
| DNEL | Derived No-Effect Level |
| EAKV | European Waste Catalogue Directive |

| | |
|---|---|
| EC | Effective Concentration |
| EC | European Community |
| EN | European Standard |
| IATA-DGR | International Air Transport Association – Dangerous Goods Regulations |
| IBC Code | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ICAO-TI | International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air |
| IMDG Code | International Maritime Code for Dangerous Goods |
| ISO | International Organization for Standardization |
| LC | Lethal Concentration |
| LD | Lethal Dose |
| MAK | Maximum wokplace concentration |
| MARPOL | Maritime Pollution: The International Convention for the Prevention of Pollution from Ships |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | persistent, bioaccumulative, toxic |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| UN | United Nations |
| VOC | Volatile Organic Compounds |
| vPvB | very persistent and very bioaccumulative |

**Further information**
Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.