



## Safety Data Sheet

according to UK REACH Regulation

### Kiehl-Legnodur-Titan

Revision date: 12.12.2022

Product code: j2213\_sd

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#### Hazardous components

| CAS No   | Chemical name                                                                |              |                  | Quantity  |
|----------|------------------------------------------------------------------------------|--------------|------------------|-----------|
|          | EC No                                                                        | Index No     | REACH No         |           |
|          | Classification (GB CLP Regulation)                                           |              |                  |           |
| 111-76-2 | 2-Butoxyethanol                                                              |              |                  | 1 - < 5 % |
|          | 203-905-0                                                                    | 603-014-00-0 | 01-2119475108-36 |           |
|          | Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319 |              |                  |           |

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

#### Specific Conc. Limits, M-factors and ATE

| CAS No   | EC No                                                                            | Chemical name   | Quantity  |
|----------|----------------------------------------------------------------------------------|-----------------|-----------|
|          | Specific Conc. Limits, M-factors and ATE                                         |                 |           |
| 111-76-2 | 203-905-0                                                                        | 2-Butoxyethanol | 1 - < 5 % |
|          | inhalation: ATE 3 mg/l (vapours); dermal: LD50 = 220 mg/kg; oral: ATE 1200 mg/kg |                 |           |

#### Further Information

preservatives (Benz-, Methyl-, Methylchloroisothiazolinone)

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

No hazards which require special first aid measures.

##### After inhalation

not hazardous by inhalation

##### After contact with skin

Wash off with plenty of water.

##### After contact with eyes

Rinse thoroughly with plenty of water, also under the eyelids.

##### After ingestion

Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible.

Consult a physician if necessary.

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

This information is not available.

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

Show this safety data sheet to the doctor in attendance.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Any extinguishing means and measures are acceptable.

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

This information is not available.

#### 5.3. Advice for firefighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

### SECTION 6: Accidental release measures

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

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#### General advice

Not required

#### For non-emergency personnel

No special measures are necessary.

#### For emergency responders

No special measures are necessary.

#### 6.2. Environmental precautions

Do not flush into surface water.

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

##### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

##### For cleaning up

Wipe up with absorbent material (e.g. cloth, fleece).

Clean contaminated articles and floor according to the environmental legislation.

##### Other information

Wipe up with absorbent material (e.g. cloth, fleece). Do not allow to dry.

#### 6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

No special precautions required.

##### Advice on protection against fire and explosion

No special protective measures against fire required.

##### Advice on general occupational hygiene

General industrial hygiene practice. No special protective equipment required.

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

##### Requirements for storage rooms and vessels

Store at room temperature in the original container. Store in a place accessible by authorized persons only.

Protect from frost.

##### Further information on storage conditions

Keep container tightly closed.

Never return unused material to storage receptacle.

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

This information is not available.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

| CAS No   | Substance       | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|----------|-----------------|-----|-------------------|-----------|---------------|--------|
| 111-76-2 | 2-Butoxyethanol | 25  | 123               |           | TWA (8 h)     | WEL    |
|          |                 | 50  | 246               |           | STEL (15 min) | WEL    |

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#### Biological Monitoring Guidance Values (EH40)

| CAS No   | Substance       | Parameter                      | Value        | Test material | Sampling time |
|----------|-----------------|--------------------------------|--------------|---------------|---------------|
| 111-76-2 | 2-Butoxyethanol | butoxyacetic acid (creatinine) | 240 mmol/mol | urine         | Post shift    |

#### 8.2. Exposure controls

##### Appropriate engineering controls

Not required.

##### Individual protection measures, such as personal protective equipment

##### Skin protection

Not required

##### Respiratory protection

Not required

##### Environmental exposure controls

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

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

|                 |                |
|-----------------|----------------|
| Physical state: | liquid         |
| Colour:         | milky          |
| Odour:          | characteristic |

#### Test method

|                                                           |                                  |
|-----------------------------------------------------------|----------------------------------|
| Melting point/freezing point:                             | <0 °C                            |
| Boiling point or initial boiling point and boiling range: | >98 °C                           |
| Flammability                                              |                                  |
| Solid/liquid:                                             | not applicable                   |
| Gas:                                                      | not applicable                   |
| Lower explosion limits:                                   | not applicable                   |
| Upper explosion limits:                                   | not applicable                   |
| Flash point:                                              | >100 °C                          |
| Auto-ignition temperature:                                | >300 °C                          |
| Decomposition temperature:                                | not determined                   |
| pH-Value (at 20 °C):                                      | approx. 8,0 K-QP1012C            |
| Viscosity / kinematic:                                    | not determined                   |
| Water solubility:<br>(at 20 °C)                           | completely miscible              |
| Solubility in other solvents                              | not determined                   |
| Partition coefficient n-octanol/water:                    | not determined                   |
| Vapour pressure:                                          | not determined                   |
| Density (at 20 °C):                                       | 1,02 g/cm <sup>3</sup> K-QP1012E |
| Relative vapour density:                                  | not determined                   |

#### 9.2. Other information

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

##### Explosive properties

Not explosive

##### Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

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Oxidizing properties  
Not relevant

**Other safety characteristics**

|                      |                |
|----------------------|----------------|
| Evaporation rate:    | not determined |
| Solid content:       | not determined |
| Sublimation point:   | not applicable |
| Softening point:     | not applicable |
| Pour point:          | not applicable |
| Viscosity / dynamic: | not determined |
| Flow time:           | not determined |

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

This information is not available.

**10.2. Chemical stability**

This information is not available.

**10.3. Possibility of hazardous reactions**

This information is not available.

**10.4. Conditions to avoid**

Do not expose to temperatures above 35 °C.  
Protect from frost.

**10.5. Incompatible materials**

This information is not available.

**10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed.

**Further information**

Do not mix with other detergents or chemicals.

**SECTION 11: Toxicological information**

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

**Acute toxicity**

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

| CAS No   | Chemical name     |                |         |        |        |
|----------|-------------------|----------------|---------|--------|--------|
|          | Exposure route    | Dose           | Species | Source | Method |
| 111-76-2 | 2-Butoxyethanol   |                |         |        |        |
|          | oral              | ATE 1200 mg/kg |         |        |        |
|          | dermal            | LD50 220 mg/kg |         |        |        |
|          | inhalation vapour | ATE 3 mg/l     |         |        |        |

**Irritation and corrosivity**

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

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

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#### 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.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

This information is not available.

#### Further information

Health injuries are not known or expected under normal use.

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

#### 12.2. Persistence and degradability

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. Readily biodegradable, according to appropriate OECD test.

#### 12.3. Bioaccumulative potential

This information is not available.

#### 12.4. Mobility in soil

This information is not available.

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

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

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

This information is not available.

#### Further information

Chemical Oxygen Demand (COD) 800 mg O<sub>2</sub>/g. The emulsions which are produced by this product break down in sewage. This produces water insoluble wax agglomerates which are eliminated as fibres in the waste sludge.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Container should be emptied thoroughly. Do not pour remains of product in large quantities into the sewage.

##### List of Wastes Code - residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

##### List of Wastes Code - used product

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

##### Contaminated packaging

Clean container with water. Return cleaned containers to the company for recycling.  
Offer rinsed packaging material to local recycling facilities.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

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**14.1. UN number or ID number:** not applicable

**14.2. UN proper shipping name:** not applicable

**14.3. Transport hazard class(es):** not applicable

**14.4. Packing group:** not applicable

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

Not required

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

not applicable

#### **Other applicable information**

Not classified as dangerous in the meaning of transport regulations.

### SECTION 15: Regulatory information

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

##### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

##### **Additional information**

The product does not need to be labelled in accordance with EC directives or respective national laws.

##### **National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

#### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### **Changes**

This data sheet contains changes from the previous version in section(s): 3 / 6 / 7 / 8 / 12

#### **Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

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EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Relevant H and EUH statements (number and full text)

|      |                                |
|------|--------------------------------|
| H302 | Harmful if swallowed.          |
| H315 | Causes skin irritation.        |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled.              |

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*