

Safety Data Sheet Highlighter Core Kit (EU)

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

1.1 **Product identifier**

| Product name | Highlighter Core Kit |
|----------------|----------------------|
| Product number | HL72K |
| Brand | Highlighter Core Kit |

Other means of identification

| Component 1. | K087-HL : | DP1 (Dewax Solution-1) |
|---------------|------------|-------------------------------|
| Component 2. | K088-HL : | DP2 (Dewax Solution-2) |
| Component 3. | K089-HL: | CA2 (Citrate buffer, pH6.0) |
| Component 4. | K102-HL: | EA1 (Tris EDTA buffer, pH9.0) |
| Component 5. | K054-HL: | Tissue Primer |
| Component 6. | K023-HL: | Background Blocker |
| Component 7. | PTS-L-HL: | Mouse/Rabbit Linker (Yellow) |
| Component 8. | PTS-P-HL: | HRP Polymer (Red) |
| Component 9. | K081-B-HL: | DAB Auto Buffer |
| Component 10. | K081-C-HL: | DAB Auto Chromogen |
| Component 11. | K097-HL: | Blue Hematoxylin |

1.2 Relevant identified uses of the substance or mixture and uses advised against In Vitro Diagnostic Use

1.3 Details of the supplier of the safety data sheet

| Name Address | Diagnostic Biosystems 6616 Owens Drive Pleasanton CA 94588 USA |
|-----------------|---|
| Telephone | (888) 896-3350 |

1.4 Emergency telephone number

email

(925) 484-3350 (9AM-6PM, Monday - Friday, Pacific Standard Time)

customersupport@dbiosys.com

SECTION 2: Hazards identification

General hazard statement

For professional users only

2.1 Classification of the substance or mixture

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

- Acute toxicity, dermal (chapter 3.1), Cat. 3, H311
- Acute toxicity, inhalation (chapter 3.1), Cat. 4, H332
- Acute toxicity, inhalation (chapter 3.1), Cat. 5, H333
- Acute toxicity, oral (chapter 3.1), Cat. 4, H302
- Carcinogenicity (chapter 3.6), Cat. 1B, H350
- Germ cell mutagenicity (chapter 3.5), Cat. 2, H341
- Skin corrosion/irritation (chapter 3.2), Cat. 1A, H314
- Skin sensitizer (chapter 3.4), Cat. 1, H317

For the full text corresponding to the "H"-codes displayed in this section, refer to Section 16.

2.2 Label elements

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

Hazard pictograms



1. Exclamation mark; 2. Skull and crossbones; 3. Health hazard; 4. Corrosion

Signal word

Danger

| Hazard statements | |
|--------------------------|---|
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H332 | Harmful if inhaled |
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer |
| Precautionary statements | |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell, |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse |
| | skin with water. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove |
| | contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P330 | Rinse mouth. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| | |

| P363 | Wash contaminated clothing before reuse. |
|------|--|
| P405 | Store locked up. |
| P501 | Dispose of contents/container to a licensed disposal company |

2.3 Other hazards

No other hazards identified.

SECTION 3: Composition/information on ingredients

3.2 **Mixtures**

Components

Component 1. Dewax Solution-1

| 1. Butoxydiglycol | |
|-------------------|--|
| Concentration | |

| Concentration | <= 0.1 % (volume) |
|------------------------|--|
| Other names / synonyms | 2-(2-Butoxyethoxy)ethanol; BUTOXYDIETHYLENE GLYCOL; BUTOXYETHOXYETHANOL,2-2-; BUTYL CARBITOL; BUTYL DIOXITOL; DEGBE; DIEHYLENE DB; Diethylene glycol butyl ether; diethylene glycol monobutyl ether; Diethylene glycol monobutyl ether (DEGBE); DIETHYLENE GLYCOL n-BUTYL ETHER; DIGLYCOL MONOBUTYL ETHER; DOWANOL DB; EKTASOLVE DB; Ethanol, 2-(2-butoxyethoxy)-; GLYCOL ETHER DB; GLYCOL MONOBUTYL ETHER; JEFFERSOL DB; O-BUTYL DIETHYLENE GLYCOL; POLY-SOLV DB |
| EC no. | 203-961-6 |
| CAS no. | 112-34-5 |
| Index no. | 603-096-00-8 |
| | |

- Acute toxicity, dermal (chapter 3.1), Cat. 5

- Acute toxicity, oral (chapter 3.1), Cat. 5

- Serious eye damage/eye irritation (chapter 3.3), Cat. 2

| H303 | May be harmful if swallowed |
|------|-------------------------------------|
| H313 | May be harmful in contact with skin |
| H319 | Causes serious eye irritation |

Component 2. Dewax Solution-2

| 1. Butoxydiglycol Concentration | <= 0.1 % (volume) |
|---|---|
| Other names / synonyms EC no. CAS no. | 2-(2-Butoxyethoxy)ethanol; BUTOXYDIETHYLENE GLYCOL; BUTOXYETHOXYETHANOL,2-2-; BUTYL CARBITOL; BUTYL DIOXITOL; DEGBE; DIEHYLENE DB; Diethylene glycol butyl ether; diethylene glycol monobutyl ether; Diethylene glycol monobutyl ether (DEGBE); DIETHYLENE GLYCOL n-BUTYL ETHER; DIGLYCOL MONOBUTYL ETHER; DOWANOL DB; EKTASOLVE DB; Ethanol, 2-(2-butoxyethoxy)-; GLYCOL ETHER DB; GLYCOL MONOBUTYL ETHER; JEFFERSOL DB; O-BUTYL DIETHYLENE GLYCOL; POLY-SOLV DB 203-961-6 112-34-5 |

Index no.

603-096-00-8

- Acute toxicity, dermal (chapter 3.1), Cat. 5

- Acute toxicity, oral (chapter 3.1), Cat. 5

- Serious eye damage/eye irritation (chapter 3.3), Cat. 2

| H303 | May be harmful if swallowed |
|------|-------------------------------------|
| H313 | May be harmful in contact with skin |
| H319 | Causes serious eye irritation |

Component 3. Citrate Buffer

1. SODIUM AZIDE

Concentration

<= 0.5 % (weight)

| Other names / synonyms | Sodium azide (Na(N3)) |
|------------------------|-----------------------|
| EC no. | 247-852-1 |
| CAS no. | 26628-22-8 |
| Index no. | 011-004-00-7 |

- Acute toxicity, dermal (C.4.2), Cat. 1

- Acute toxicity, inhalation (C.4.3), Cat. 2
- Acute toxicity, oral (C.4.1), Cat. 2
- Specific target organ toxicity (repeated exposure) (C.4.12), Cat. 2
- Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1

Component 4. Tris EDTA Buffer

1. Tromethamine

| Concentration | <= 0.2 % (weight) |
|---|---|
| Other names / synonyms CAS no. | 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-; Tris; Trometamol; 77-86-1 |
| 2. EDTA Trisodium salt Concentration CAS no. | <= 0.5 % (weight) 10378-22-0 |
| 3. Polysorbate 21 Concentration | <= 0.1 % (volume) |
| Other names / synonyms | Polyoxyethylene sorbitan monolaurate; Polysorbate 20; Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs; Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs.; Tween 20 |
| EC no. CAS no. | 500-018-3 9005-64-5 |

Component 5. Tissue Primer

| Hydrogen peroxide Concentration | <= 5 % (volume) |
|---|--|
| Other names / synonyms | ALBONE; DIHYDROGEN DIOXIDE; HYDROGEN DIOXIDE; HYDROGEN PEROXIDE; Hydrogen peroxide (H2O2); hydrogen peroxide solution; hydrogen peroxide solution; HYDROGEN PEROXIDE SOLUTION; Hydrogen peroxide, and other compounds or mixtures that release hydrogen peroxide, including carbamide peroxide and zinc peroxide; Hydrogenii peroxidum; HYDROGENPEROXIDE; HYDROPEROXIDE; PEROXIDE; SUPEROXOL; T-STUFF |
| EC no. CAS no. Index no. | 231-765-0 7722-84-1 008-003-00-9 |
| Acute toxicity, inhalation (C.4.3), Ca Acute toxicity, oral (C.4.1), Cat. 4 Oxidizing liquids (C.4.26), Cat. 1 Skin corrosion/irritation (C.4.4), Cat | |
| H271 H302 H314 H332 SCLs/M-factors/ATEs | May cause fire or explosion; strong oxidizer Harmful if swallowed Causes severe skin burns and eye damage Harmful if inhaled Ox. Liq. 1; H271: $C \ge 70 \%$ **** Ox. Liq. 2; H272: 50 % $\le C < 70 \%$ **** * Skin Corr. 1A; H314: $C \ge 70 \%$ Skin Corr. 1B; H314: 50 % $\le C < 70 \%$ Skin Irrit. 2; H315: 35 % $\le C < 50 \%$ Eye Dam. 1; H318: 8 % $\le C < 50 \%$ Eye Irrit. 2; H319: 5 % $\le C < 8 \%$ STOT SE 3; H335; $C \ge 35 \%$ |
| 2. Reaction mass of: 5-Chloro-2-m Concentration | ethyl4- isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) <= 0.5 % (volume) |
| Other names / synonyms | 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone; Kathon 886; |
| EC no. CAS no. Index no. | 55965-84-9 613-167-00-5 |
| Acute toxicity, inhalation (C.4.3), Ca Acute toxicity, dermal (C.4.2), Cat. 2 Acute toxicity, oral (C.4.1), Cat. 3 Skin corrosion/irritation (C.4.4), Cat Eye damage/irritation (C.4.5), Cat. 4 Sensitization, skin (C.4.7), Cat. 1A | 2 . 1C |

- Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1

- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1

| H301 | Toxic if swallowed |
|------|---|
| H310 | Fatal in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |

H318 H330 H400 H410 SCLs/M-factors/ATEs Causes serious eye damage Fatal if inhaled Very toxic to aquatic life Very toxic to aquatic life with long lasting effects Skin Corr. 1C; : $C \ge ,6 \%$ Skin Irrit. 2; H315: ,06 % $\le C < ,6 \%$ Eye Dam. 1; : $C \ge ,6 \%$ Eye Irrit. 2; H319: ,06 % $\le C < ,6 \%$ Skin Sens. 1A; : $C \ge ,0015 \%$ M=100 M=100

Component 6. Background Blocker

| 1. Sodium azide Concentration | <= 0.1 % (weight) |
|----------------------------------|------------------------------------|
| Other names / synonyms EC no. | Sodium azide (Na(N3)) 247-852-1 |
| CAS no. | 26628-22-8 |
| Index no. | 011-004-00-7 |

- Acute toxicity, dermal (C.4.2), Cat. 1

- Acute toxicity, inhalation (C.4.3), Cat. 2
- Acute toxicity, oral (C.4.1), Cat. 2

- Specific target organ toxicity (repeated exposure) (C.4.12), Cat. 2

- Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1

- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1

Component 7. Mouse/Rabbit Linker

| 1. Reaction mass of: 5-Chloro-2-m Concentration | ethyl4- isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) <= 0.5 % (volume) |
|--|---|
| Other names / synonyms | 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone; Kathon 886; |
| EC no. | |
| CAS no. | 55965-84-9 |
| Index no. | 613-167-00-5 |
| - Acute toxicity, inhalation (C.4.3), Cat. 2 | |

- Acute toxicity, initialation (C.4.3), Cat. 2

- Acute toxicity, definal (C.4.2), Cat - Acute toxicity, oral (C.4.1), Cat. 3
- Skin corrosion/irritation (C.4.4), Cat. 1C
- Skin conosion/initiation (C.4.4), Cal. TC
- Eye damage/irritation (C.4.5), Cat. 1
- Sensitization, skin (C.4.7), Cat. 1A

- Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1

- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1

| H301 H310 | Toxic if swallowed Fatal in contact with skin |
|--------------|--|
| H314 H317 | Causes severe skin burns and eye damage |
| H318 | May cause an allergic skin reaction Causes serious eye damage |

H330 H400 H410 SCLs/M-factors/ATEs Fatal if inhaled Very toxic to aquatic life Very toxic to aquatic life with long lasting effects Skin Corr. 1C; : $C \ge ,6 \%$ Skin Irrit. 2; H315: ,06 % $\le C < ,6 \%$ Eye Dam. 1; : $C \ge ,6 \%$ Eye Irrit. 2; H319: ,06 % $\le C < ,6 \%$ Skin Sens. 1A; : $C \ge ,0015 \%$ M=100 M=100

Component 8. HRP Polymer

| 1. Reaction mass of: 5-Chloro-2-m Concentration | ethyl4- isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) <= 0.5 % (volume) | |
|--|--|--|
| Other names / synonyms EC no. CAS no. Index no. | 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)- isothiazolone; Kathon 886; — 55965-84-9 613-167-00-5 | |
| Acute toxicity, inhalation (C.4.3), Cat. 2 Acute toxicity, dermal (C.4.2), Cat. 2 Acute toxicity, oral (C.4.1), Cat. 3 Skin corrosion/irritation (C.4.4), Cat. 1C Eye damage/irritation (C.4.5), Cat. 1 Sensitization, skin (C.4.7), Cat. 1A Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1 Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1 | | |
| H301 H310 H314 H317 H318 H330 H400 H410 SCLs/M-factors/ATEs | Toxic if swallowed Fatal in contact with skin Causes severe skin burns and eye damage May cause an allergic skin reaction Causes serious eye damage Fatal if inhaled Very toxic to aquatic life Very toxic to aquatic life with long lasting effects Skin Corr. 1C; : $C \ge ,6 \%$ Skin Irrit. 2; H315: $,06 \% \le C < ,6 \%$ Eye Dam. 1; : $C \ge ,6 \%$ Eye Irrit. 2; H319: $,06 \% \le C < ,6 \%$ Skin Sens. 1A; : $C \ge ,0015 \%$ M=100 M=100 | |

Component 9. DAB Auto Buffer

| 1. Hydrogen peroxide Concentration | <= 5 % (volume) |
|---------------------------------------|--|
| Other names / synonyms | ALBONE; DIHYDROGEN DIOXIDE; HYDROGEN DIOXIDE; HYDROGEN PEROXIDE; Hydrogen peroxide (H2O2); hydrogen peroxide solution; |

hydrogen peroxide solution; HYDROGEN PEROXIDE SOLUTION; Hydrogen peroxide, and other compounds or mixtures that release hydrogen peroxide, including carbamide peroxide and zinc peroxide; Hydrogenii peroxidum; HYDROGENPEROXIDE; HYDROPEROXIDE; PEROXIDE; SUPEROXOL; **T-STUFF** 231-765-0 7722-84-1 008-003-00-9

| EC no. | |
|-----------|--|
| CAS no. | |
| Index no. | |

- Acute toxicity, inhalation (C.4.3), Cat. 4

- Acute toxicity, oral (C.4.1), Cat. 4
- Oxidizing liquids (C.4.26), Cat. 1
- Skin corrosion/irritation (C.4.4), Cat. 1A

| H271 H302 H314 H332 SCLs/M-factors/ATEs | May cause fire or explosion; strong oxidizer Harmful if swallowed Causes severe skin burns and eye damage Harmful if inhaled Ox. Liq. 1; H271: $C \ge 70 \%^{****}$ Ox. Liq. 2; H272: 50 % $\le C < 70 \%^{****}$ |
|---|---|
| | Skin Corr. 1A; H314: $C \ge 70 \%$ Skin Corr. 1B; H314: 50 % $\le C < 70 \%$ Skin Irrit. 2; H315: 35 % $\le C < 50 \%$ Eye Dam. 1; H318: 8 % $\le C < 50 \%$ Eye Irrit. 2; H319: 5 % $\le C < 8 \%$ STOT SE 3; H335; $C \ge 35 \%$ |

Component 10. DAB Auto Chromogen

1. 3,3'-Diaminobenzidine tetrahydrochloride hydrate

| Concentration | <= 5 % (weight) |
|---|---|
| CAS no. | 868272-85-9 |
| Other names / synonyms | [1,1'-Biphenyl]-3,3',4,4'-tetramine; biphenyl-3,3',4,4'-tetrayltetraamine; diaminobenzidine |
| - Serious eye damage/eye irritation (chapter 3.3), Cat. 2 | |

- Acute toxicity, oral (C.4.1), Cat. 4

- Carcinogenicity (C.4.9), Cat. 1B

- Germ cell mutagenicity (C.4.8), Cat. 2

| H341 | Suspected of causing genetic defects |
|------|--------------------------------------|
| H350 | May cause cancer |

Component 11. Blue Hematoxylin

1. Aluminum sulfate

Concentration

<= 5 % (weight)

| Other names / synonyms CAS no. | Aluminii sulfas; Aluminium sulfate; Aluminium sulphate; Sulfuric acid, aluminum salt (3:2) 10043-01-3 |
|--|---|
| 2. Acetic acid Concentration Other names / synonyms | <= 5 % (volume) acetic acid; ACETIC ACID; ACETIC ACID, GLACIAL; ACETICACID; Acidum aceticum; ETHANOIC ACID; ETHYLIC ACID; GLACIAL ACETIC ACID; METHANECARBOXYLIC ACID; UN 2789; UN 2790; VINEGAR ACID |
| EC no. CAS no. Index no. | 200-580-7 64-19-7 607-002-00-6 |
| - Flammable liquids (C.4.19), Cat. 3 - Skin corrosion/irritation (C.4.4), Cat | . 1A |
| H226 H314 SCLs/M-factors/ATEs | Flammable liquid and vapor Causes severe skin burns and eye damage Skin Corr. 1A; H314: $C \ge 90 \%$ Skin Corr. 1B; H314: 25 % $\le C < 90 \%$ Skin Irrit. 2; H315: 10 % $\le C < 25 \%$ Eye Irrit. 2; H319: 10 % $\le C < 25 \%$ |
| 3. HEMATOXYLIN Concentration | <= 1 % (weight) |
| Other names / synonyms CAS no. | Benz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6H)-pentol, 7,11b-dihydro-, cis-(++)-; 517-28-2 |

SECTION 4: First aid measures

4.1 Description of first aid measures

| General notes | Consult a physician. Show this safety data sheet to the doctor in attendance. |
|------------------------|---|
| Following inhalation | If breathed in, move person into fresh air. If not breathing, give artificial respiration. |
| | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| Following skin contact | Rinse with plenty of water. Get medical attention if irritation develops and persists. |
| Following eye contact | Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. |
| Following ingestion | Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce |
| | Version: SDS-0133, Revision: A, Date of issue: 2024-24-06, Printed on: 2024-24-06, p. 9 of 17 |

vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Self-protection of the first aider Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use extinguishing media appropriate for surrounding fire.

5.2 Special hazards arising from the substance or mixture

SODIUM AZIDE: Sodium oxides

Reaction mass of: 5-Chloro-2-methyl4- isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Carbon oxide. Nitrogen oxides.

3,3'-Diaminobenzidine: Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 112-34-5 (EC: 203-961-6)

Butoxydiglycol ACGIH (USA): 10 ppm TLV®

CAS: 26628-22-8 (EC: 247-852-1)

Sodium azide

ACGIH: 0.29 mg/m3 (C); 0.1 ppm (C) hydrazoic acid vapor TLV® inhalation; NIOSH: 0.29 mg/m3 (C); 0.1 ppm (C) hydrazoic acid vapor REL-C inhalation

CAS: 64-19-7 (EC: 200-580-7)

Acetic acid

ACGIH (USA): 15 ppm STEL inhalation; 10 ppm, (ST) 15 ppm TLV® inhalation; 10 ppm TWA inhalation; Cal/OSHA (USA): 40 ppm C inhalation; 10 ppm, (ST) 15 ppm, (C) 40 ppm PEL inhalation; 10 ppm, 25 mg/m3 PEL inhalation; 15 ppm, 37 mg/m3 STEL inhalation; NIOSH (USA): 10 ppm, (ST) 15 ppm REL inhalation; 15 ppm, 37 mg/m3 ST inhalation; 10 ppm, 25 mg/m3 TWA inhalation; OSHA (USA): 25 mg/m3 PEL inhalation; 10 ppm, 25 mg/m3 TWA inhalation;

CAS: 7722-84-1

Hydrogen peroxide

ACGIH (USA): 1 ppm TLV® inhalation; Cal/OSHA (USA): 1 ppm PEL inhalation; NIOSH (USA): 1 ppm REL inhalation; OSHA (USA): 1 ppm PEL inhalation; 1.4 mg/m3 PEL inhalation

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Individual protection measures, such as personal protective equipment

Pictograms



Eye and face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available

Control banding approach

No data available.

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Explosive properties Oxidizing properties No data available. No data available.

Particle characteristics No data available.

9.2 Other information

9.2.1 Information with regard to physical hazard classes No data available.

9.2.2 Other safety characteristics No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity None under normal use conditions.

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** None under normal use conditions.

10.4 Conditions to avoid

Exposure to moisture.

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

10.5 Incompatible materials

Diethylene glycol butyl ether: Strong oxidizing agents, Light metals

Hydrogen peroxide: Zinc, Powdered metals, Iron, Copper, Nickel, Brass, Iron and iron salts.

Acetic acid: Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols, Nitric acid

10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

Diethylene glycol butyl ether: Other decomposition products - No data available In the event of fire: see section 5

Hydrogen peroxide: Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Acetic acid: Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

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

Acute toxicity

The ATE (dermal) of the mixture is: 909.09 mg/kg bw

The ATE (gas inhalation) of the mixture is: 9000 ppmV

The ATE (vapor inhalation) of the mixture is: 40.74 mg/l

The ATE (oral) of the mixture is: 800 mg/kg bw

Skin corrosion/irritation

Acetic acid LD50 Skin - Rat - 1,112 mg/kg

Diethylene glycol butyl ether LD50 Skin - Rabbit - male - 2,764 mg/kg Remarks: (OECD Test Guideline 402)

Sodium azide LD50 Skin - Rat - 20 mg/kg

Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

Acetic acid LC50 Inhalation - Mouse - 5620 ppm - 1 h Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Blood:Other changes.

Acetic acid LC50 Inhalation - Rat - 11.4 mg/l - 4 h

Sodium azide LC50 Inhalation - Rat - 0.054 - 0.52 mg/l - 4 hr

Germ cell mutagenicity Based on available data, classification data are not met

Carcinogenicity

3,3'-Diaminobenzidine Oral - Rat Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors. Presumed to have carcinogenic potential for humans

Reproductive toxicity

Based on available data, classification data are not met

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

11.2 Information on other hazards

Endocrine disrupting properties No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acetic acid LC50 - Oncorhynchus mykiss (rainbow trout) - >1,000 mg/l - 96 h Citation: (OECD Test Guideline 203)

Acetic acid EC50 - Daphnia magna (water flea) - >300.82 mg/l - 48 h Citation: (OECD Test Guideline 202)

Diethylene glycol butyl ether LC50 - Lepomis macrochirus (bluegill) - 1,300 mg/l - 96 h Remarks: (OECD Test Guideline 203)

Diethylene glycol butyl ether EC50 - Daphnia magna (water flea) - >100 mg/l - 48 h Remarks: (Directive 67/548/EEC, Annex V, C.2.)

Polyoxyethylene sorbitan monolaurate LC50 - Other fish - 350 mg/l - 24 h

Sodium azide LC50 - Oncorhynchus mykiss (rainbow trout) - 2.96 mg/l - 96 h

Sodium azide EC50 - Pseudokirchneriella subcapitata (green algae) - 0.348 mg/l - 96 h

12.2 Persistence and degradability

No data available.

Diethylene glycol butyl ether aerobic - 28 d Result: 91.7 % - Readily biodegradable Remarks: OECD Test Guideline 301B)

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil No data available.

- **12.5** Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- **12.6 Endocrine disrupting properties** No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company.

Packaging disposal

Dispose of as unused product.

Waste treatment

No data available

Sewage disposal

Do not let product enter drains

Other disposal recommendations

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

SECTION 14: Transport information

| 14.1 | UN Number | None |
|------|---|------|
| 14.2 | UN Proper Shipping Name | None |
| | Transport hazard class(es) | None |
| 14.4 | Packing group | None |
| 14.5 | Environmental hazards | None |
| 14.6 | Special precautions for user | None |
| 14.7 | Maritime transport in bulk according to IMO instruments | None |

SECTION 15: Regulatory information

15.2 Chemical Safety Assessment

The supplier of this product has not conducted any Chemical Safety Assessment

SECTION 16: Other information

Full text of hazard statements referenced in Section 2

| H302 | Harmful if swallowed |
|------|----------------------------|
| H311 | Toxic in contact with skin |

| H314 | Causes severe skin burns and eye damage |
|------|---|
| H317 | May cause an allergic skin reaction |
| H332 | Harmful if inhaled |
| H333 | May be harmful if inhaled |
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer |
| | |

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Further information/disclaimer

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