

Creation Date 02-Apr-2012

Revision Date 13-Oct-2023

Revision Number 4

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description: Full Scale DNA Ladder, 1kb
Cat No. : BP2582-200; BP2582-4
Synonyms Hi-Lo DNA Marker.

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company

UK entity/business name
Fisher Scientific UK
Bishop Meadow Road,
Loughborough, Leicestershire LE11 5RG,
United Kingdom

EU entity/business name
Thermo Fisher Scientific
Janssen Pharmaceuticaaan 3a, 2440 Geel,
Belgium

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99
CHEMTREC Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

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Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements

None required

2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No | EC No | Weight % | CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|--|------------|-------------------|----------|---|
| Tris (hydroxymethyl) aminomethane | 77-86-1 | 201-064-4 | < 1.0 | - |
| Sodium azide | 26628-22-8 | 247-852-1 | 0.02 | Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032) |
| Ethylenediamine tetraacetic acid (EDTA) | 60-00-4 | EEC No. 200-449-4 | < 1.0 | Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT RE 2 (H373) |
| Glycerin | 56-81-5 | 200-289-5 | 6.0 | - |
| Water | 7732-18-5 | 231-791-2 | 90.9+ | - |
| Bromophenyl blue | NA | | 0.02 | - |
| Hi-Lo DNA Marker, premixed with loading dye, plasmid DNA | NA | | < 1.0 | - |
| Xylene cyanol FE | NA | | 0.02 | - |

| Component | Specific concentration limits (SCL's) | M-Factor | Component notes |
|--------------|---------------------------------------|----------|-----------------|
| Sodium azide | - | 1 | - |

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

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| | |
|---|--|
| Ingestion | Do NOT induce vomiting. Get medical attention. |
| Inhalation | Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur. |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |

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

No information available.

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

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

No information available.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

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7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

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

Technical Rules for Hazardous Substances (TRGS) 510 Class 12
Storage Class (LGK) (Germany)

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC

| Component | The United Kingdom | European Union | Ireland |
|--------------|---|---|--|
| Sodium azide | Skin TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ | Skin TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ | TWA: 0.1 mg/m ³ 8 hr. STEL: 0.3 mg/m ³ 15 min Skin |
| Glycerin | TWA: 10 mg/m ³ 8 hr (mist only) | | TWA: 10 mg/m ³ 8 hr. (mist) |

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|--|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Tris (hydroxymethyl) aminomethane 77-86-1 (< 1.0) | | | | DNEL = 166.7mg/kg bw/day |
| Sodium azide 26628-22-8 (0.02) | | | | DNEL = 46.7µg/kg bw/day |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|-----------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
|-----------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|

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| | | | | |
|--|---------------------------|--|-----------------------------|-------------------------------|
| Tris (hydroxymethyl) aminomethane 77-86-1 (< 1.0) | | | | DNEL = 117.5mg/m ³ |
| Sodium azide 26628-22-8 (0.02) | | | | DNEL = 0.164mg/m ³ |
| Ethylenediamine tetraacetic acid (EDTA) 60-00-4 (< 1.0) | DNEL = 3mg/m ³ | | DNEL = 1.5mg/m ³ | |
| Glycerin 56-81-5 (6.0) | | | DNEL = 56mg/m ³ | |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water sediment | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture) |
|--|------------------|------------------------------|--------------------|------------------------------------|---------------------------|
| Tris (hydroxymethyl) aminomethane 77-86-1 (< 1.0) | | | | PNEC = 300mg/L | |
| Sodium azide 26628-22-8 (0.02) | PNEC = 0.35µg/L | PNEC = 16.7µg/kg sediment dw | PNEC = 3.5µg/L | PNEC = 30µg/L | |
| Ethylenediamine tetraacetic acid (EDTA) 60-00-4 (< 1.0) | PNEC = 2.2mg/L | | PNEC = 1.2mg/L | PNEC = 43mg/L | PNEC = 0.72mg/kg soil dw |
| Glycerin 56-81-5 (6.0) | PNEC = 0.885mg/L | PNEC = 3.3mg/kg sediment dw | PNEC = 8.85mg/L | PNEC = 1000mg/L | PNEC = 0.141mg/kg soil dw |

| Component | Marine water | Marine water sediment | Marine water intermittent | Food chain | Air |
|--|-------------------|------------------------------|---------------------------|------------|-----|
| Sodium azide 26628-22-8 (0.02) | PNEC = 15ng/L | PNEC = 0.72µg/kg sediment dw | PNEC = 150ng/L | | |
| Ethylenediamine tetraacetic acid (EDTA) 60-00-4 (< 1.0) | PNEC = 0.22mg/L | | | | |
| Glycerin 56-81-5 (6.0) | PNEC = 0.0885mg/L | PNEC = 0.33mg/kg sediment dw | | | |

8.2. Exposure controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection

Wear safety glasses with side shields (or goggles) (European standard - EN 166)

Hand Protection

Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|-------------------|-----------------------------------|-----------------|-------------|-----------------------|
| Disposable gloves | See manufacturers recommendations | - | EN 374 | (minimum requirement) |

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

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Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

Large scale/emergency use

In case of insufficient ventilation, wear suitable respiratory equipment

Small scale/Laboratory use

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|--|--------------------------|--|
| Physical State | Liquid | |
| Appearance | Blue | |
| Odor | No information available | |
| Odor Threshold | No data available | |
| Melting Point/Range | 0 °C / 32 °F | |
| Softening Point | No data available | |
| Boiling Point/Range | 100 °C / 212 °F | |
| Flammability (liquid) | No data available | |
| Flammability (solid,gas) | No information available | |
| Explosion Limits | No data available | |
| Flash Point | No information available | Method - No information available |
| Autoignition Temperature | No data available | |
| Decomposition Temperature | No data available | |
| pH | No data available | |
| Viscosity | No data available | |
| Water Solubility | No information available | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/water) | | |
| Component | log Pow | |
| Glycerin | -1.75 | |
| Vapor Pressure | No information available | |
| Density / Specific Gravity | 1.0 | |
| Bulk Density | No data available | |
| Vapor Density | No data available | (Air = 1.0) |
| Particle characteristics | (liquid) Not applicable | |

9.2. Other information

Evaporation Rate 1 (Water = 1.0)

SECTION 10: STABILITY AND REACTIVITY

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10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization
Hazardous Reactions

Hazardous polymerization does not occur.
None under normal processing.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

See actual entry in RTECS for complete information.

(a) acute toxicity;

Oral

No data available

Dermal

No data available

Inhalation

No data available

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---------------------------|---------------------------------------|
| Tris (hydroxymethyl) aminomethane | LD50 = 5900 mg/kg (Rat) | LD50 > 5000 mg/kg (Rat) | - |
| Sodium azide | LD50 = 27 mg/kg (Rat) | - | LC50 0.054 - 0.52 mg/L (Rat) 4 h |
| Ethylenediamine tetraacetic acid (EDTA) | 4500 mg/kg (Rat) >2000 mg/kg (Rat) | - | 1 mg/l (rat) |
| Glycerin | 12600 mg/kg (Rat) | > 10 g/kg (Rabbit) | > 2.75 mg/L/4h (Rat)(mist) |
| Water | - | - | - |

(b) skin corrosion/irritation;

No data available

(c) serious eye damage/irritation;

No data available

(d) respiratory or skin sensitization;

Respiratory

No data available

Skin

No data available

(e) germ cell mutagenicity;

No data available

(f) carcinogenicity;

No data available

There are no known carcinogenic chemicals in this product

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- (g) reproductive toxicity; No data available
- (h) STOT-single exposure; No data available
- (i) STOT-repeated exposure; No data available
- Target Organs No information available.
- (j) aspiration hazard; No data available
- Symptoms / effects, both acute and delayed No information available.

11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects Do not empty into drains.

| Component | Freshwater Fish | Water Flea | Freshwater Algae |
|---|---|--|--|
| Sodium azide | LC50: = 0.7 mg/L, 96h (Lepomis macrochirus) LC50: = 0.8 mg/L, 96h (Oncorhynchus mykiss) LC50: = 5.46 mg/L, 96h flow-through (Pimephales promelas) | | |
| Ethylenediamine tetraacetic acid (EDTA) | LC50: 34 - 62 mg/L, 96h static (Lepomis macrochirus) LC50: 44.2 - 76.5 mg/L, 96h static (Pimephales promelas) | EC50: = 113 mg/L, 48h Static (Daphnia magna) | EC50: = 1.01 mg/L, 72h (Desmodesmus subspicatus) |
| Glycerin | LC50: 51 - 57 mL/L, 96h static (Oncorhynchus mykiss) | | |

| Component | Microtox | M-Factor |
|--------------|----------|----------|
| Sodium azide | | 1 |

12.2. Persistence and degradability No information available

12.3. Bioaccumulative potential No information available

| Component | log Pow | Bioconcentration factor (BCF) |
|-----------|---------|-------------------------------|
| Glycerin | -1.75 | No data available |

12.4. Mobility in soil No information available .

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12.5. Results of PBT and vPvB assessment

No data available for assessment.

12.6. Endocrine disrupting properties

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects **Persistent Organic Pollutant** **Ozone Depletion Potential**

This product does not contain any known or suspected substance

This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

No hazards identified

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14.6. Special precautions for user No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component | CAS No | EINECS | ELINCS | NLP | IECSC | TCSI | KECL | ENCS | ISHL |
|--|------------|-----------|--------|-----|-------|------|----------|------|------|
| Tris (hydroxymethyl) aminomethane | 77-86-1 | 201-064-4 | - | - | X | X | KE-01403 | X | X |
| Sodium azide | 26628-22-8 | 247-852-1 | - | - | X | X | KE-31357 | X | X |
| Ethylenediamine tetraacetic acid (EDTA) | 60-00-4 | 200-449-4 | - | - | X | X | KE-13648 | X | X |
| Glycerin | 56-81-5 | 200-289-5 | - | - | X | X | KE-29297 | X | X |
| Water | 7732-18-5 | 231-791-2 | - | - | X | X | KE-35400 | X | - |
| Bromophenyl blue | NA | - | - | - | - | - | - | - | - |
| Hi-Lo DNA Marker, premixed with loading dye, plasmid DNA | NA | - | - | - | - | - | - | - | - |
| Xylene cyanol FE | NA | - | - | - | - | - | - | - | - |

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|--|------------|------|---|-----|------|------|-------|-------|
| Tris (hydroxymethyl) aminomethane | 77-86-1 | X | ACTIVE | X | - | X | X | X |
| Sodium azide | 26628-22-8 | X | ACTIVE | X | - | X | X | X |
| Ethylenediamine tetraacetic acid (EDTA) | 60-00-4 | X | ACTIVE | X | - | X | X | X |
| Glycerin | 56-81-5 | X | ACTIVE | X | - | X | X | X |
| Water | 7732-18-5 | X | ACTIVE | X | - | X | X | X |
| Bromophenyl blue | NA | - | - | - | - | - | - | - |
| Hi-Lo DNA Marker, premixed with loading dye, plasmid DNA | NA | - | - | - | - | - | - | - |
| Xylene cyanol FE | NA | - | - | - | - | - | - | - |

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|--|------------|---|---|---|
| Tris (hydroxymethyl) aminomethane | 77-86-1 | - | - | - |
| Sodium azide | 26628-22-8 | - | - | - |
| Ethylenediamine tetraacetic acid (EDTA) | 60-00-4 | - | Use restricted. See item 75. (see link for restriction details) | - |
| Glycerin | 56-81-5 | - | - | - |
| Water | 7732-18-5 | - | - | - |
| Bromophenyl blue | NA | - | - | - |
| Hi-Lo DNA Marker, premixed with loading dye, plasmid DNA | NA | - | - | - |
| Xylene cyanol FE | NA | - | - | - |

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REACH links

<https://echa.europa.eu/substances-restricted-under-reach>

Seveso III Directive (2012/18/EC)

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|--|------------|---|--|
| Tris (hydroxymethyl) aminomethane | 77-86-1 | Not applicable | Not applicable |
| Sodium azide | 26628-22-8 | Not applicable | Not applicable |
| Ethylenediamine tetraacetic acid (EDTA) | 60-00-4 | Not applicable | Not applicable |
| Glycerin | 56-81-5 | Not applicable | Not applicable |
| Water | 7732-18-5 | Not applicable | Not applicable |
| Bromophenyl blue | NA | Not applicable | Not applicable |
| Hi-Lo DNA Marker, premixed with loading dye, plasmid DNA | NA | Not applicable | Not applicable |
| Xylene cyanol FE | NA | Not applicable | Not applicable |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

Water endangering class = 1 (self classification)

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|--|---------------------------------------|-------------------------|
| Tris (hydroxymethyl) aminomethane | WGK1 | |
| Sodium azide | WGK2 | |
| Ethylenediamine tetraacetic acid (EDTA) | WGK2 | |
| Glycerin | WGK1 | |

| Component | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|--|--|---|--|
| Ethylenediamine tetraacetic acid (EDTA) 60-00-4 (< 1.0) | Prohibited and Restricted Substances | | |

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15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC - (Volatile Organic Compound)

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Creation Date 02-Apr-2012

Revision Date 13-Oct-2023

Revision Summary Not applicable.

This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet