KIT SAFETY DATA SHEET



Kit Product Name Engineering Solutions for Global Health Kit

Kit Catalogue Number(s) 17005278, 17005278EDU

Revision date 19-Jul-2023

Kit Contents

| Catalogue Number(s) | Product Name |
|---------------------|-----------------------------------|
| 5000007, 5000007EDU | Bio-Rad Protein Assay Standard II |
| 5000205, 5000205EDU | Quick Start Bradford Reagent, 1X |

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SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 19-Jul-2023 Revision Number 1.1

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

1.1. Product identifier

Product Name Bio-Rad Protein Assay Standard II

Catalogue Number(s) 5000007, 5000007EDU

Nanoforms Not applicable

EC No (EU Index No) 305-179-1

CAS No 94349-60-7

Pure substance/mixture Substance

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

Corporate Headquarters

Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547

USA

Manufacturer

Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd

2000 Alfred Nobel Drive Hercules, California 94547

USA

Legal Entity / Contact Address

The Junction Station Road Watford, WD17 1ET

UK

Bio-Rad Laboratories Pvt. Ltd.

Bio-Rad House

86-87, Udyog Vihar Phase IV Gurgaon

122005 Haryana India

Bio-Rad Laboratories (Pty) Ltd.

34 Bolton Road

Parkwood, Johannesburg 2193

South Africa

For further information, please contact

Technical Service 00800 00246 723

Ireland: Techsupport.UK@bio-rad.com India: support.india@bio-rad.com

South Africa: cdg_techsupport_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611

SECTION 2: Hazards identification

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Revision date 19-Jul-2023

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.3. Other hazards

Contains animal source material. (Cattle).

SECTION 3: Composition/information on ingredients

3.1 Substances

| Chemical name | Weight-% | REACH registration | EC No (EU | Classification according | Specific | M-Factor | M-Factor |
|----------------|----------|--------------------|-----------|--------------------------|---------------|----------|-------------|
| | | number | Index No) | to Regulation (EC) No. | concentration | | (long-term) |
| | | | | 1272/2008 [CLP] | limit (SCL) | | |
| Albumins, beef | 50 - 100 | No data available | 305-179-1 | No data available | - | - | - |
| serum | | | | | | | |
| 94349-60-7 | | | | | | | |

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

Skin contact In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and

water.

Ingestion Rinse mouth.

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

Symptoms No information available.

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

Note to doctors Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store according to product and label instructions.

7.3. Specific end use(s)

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Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

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) Predicted No Effect Concentration

No information available. No information available.

(PNEC)

8.2. Exposure controls

Personal protective equipment

Eye/face protection No special protective equipment required.

No special protective equipment required. Skin and body protection

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

None known

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

No information available. **Environmental exposure controls**

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Appearance powder or cake, lyophilised

Colour white Odour Odourless.

Odour threshold No information available

Property Values Remarks • Method

No data available Melting point / freezing point None known Boiling point / boiling range No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive limits

No data available

No data available None known Flash point **Autoignition temperature** No data available None known **Decomposition temperature** None known

pН No data available

pH (as aqueous solution) No data available No information available

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Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Water solubility Soluble in water

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressureNo data availableNone knownRelative densityNo data availableNone known

Bulk density

Liquid Density

No data available

No data available

Vapour densityNo data availableNone known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

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Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

12.2. Persistence and degradability

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Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

IMDG

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special Precautions for Users

Special Provisions Non

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID

14.1UN numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated

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14.5 Environmental hazards

Not applicable 14.6 Special Precautions for Users

Special Provisions None

ADR

Not regulated 14.1 UN number or ID number 14.2 UN proper shipping name Not regulated Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated Not applicable 14.5 Environmental hazards

14.6 Special Precautions for Users

Special Provisions None

SECTION 15: Regulatory information

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

European Union

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.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL

Ceiling Maximum limit value Skin designation

Classification procedure Classification according to Regulation (EC) No. 1272/2008 [CLP] Method Used

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| Acute dermal toxicity Acute inhalation toxicity - gas Calculation method Acute inhalation toxicity - vapour Calculation method Acute inhalation toxicity - vapour Calculation method Acute inhalation toxicity - dust/mist Calculation method Skin corrosion/irritation Calculation method Serious eye damage/eye irritation Calculation method Respiratory sensitisation Calculation method Skin sensitisation Calculation method Mutagenicity Calculation method Carcinogenicity Calculation method Carcinogenicity Calculation method STOT - single exposure Calculation method STOT - repeated exposure Calculation method Calculation method | | |
|--|---------------------------------------|--------------------|
| Acute inhalation toxicity - gas Acute inhalation toxicity - vapour Acute inhalation toxicity - vapour Acute inhalation toxicity - dust/mist Calculation method Skin corrosion/irritation Calculation method Serious eye damage/eye irritation Calculation method Respiratory sensitisation Calculation method Skin sensitisation Calculation method Mutagenicity Calculation method Carcinogenicity Calculation method Reproductive toxicity Calculation method STOT - single exposure Calculation method | Acute oral toxicity | Calculation method |
| Acute inhalation toxicity - vapour Acute inhalation toxicity - dust/mist Calculation method Skin corrosion/irritation Calculation method Serious eye damage/eye irritation Calculation method Calculation method Calculation method Skin sensitisation Calculation method Skin sensitisation Calculation method Carcinogenicity Calculation method Carcinogenicity Calculation method Carcinogenicity Calculation method | Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - dust/mist Skin corrosion/irritation Serious eye damage/eye irritation Calculation method Carcinogenicity Calculation method Calculation method Carcinogenicity Calculation method | Acute inhalation toxicity - gas | Calculation method |
| Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation Calculation method Calculation method Calculation method Skin sensitisation Calculation method Calculation method Calculation method Carcinogenicity Calculation method Carcinogenicity Calculation method Carcinogenicity Calculation method STOT - single exposure Calculation method STOT - repeated exposure Calculation method | Acute inhalation toxicity - vapour | Calculation method |
| Serious eye damage/eye irritation Respiratory sensitisation Calculation method Carcinogenicity Calculation method | Acute inhalation toxicity - dust/mist | Calculation method |
| Respiratory sensitisation Calculation method Skin sensitisation Calculation method Mutagenicity Calculation method | Skin corrosion/irritation | Calculation method |
| Skin sensitisation Calculation method Mutagenicity Calculation method Carcinogenicity Calculation method | Serious eye damage/eye irritation | Calculation method |
| Mutagenicity Carcinogenicity Calculation method Carcinogenicity Calculation method | Respiratory sensitisation | Calculation method |
| Carcinogenicity Calculation method Reproductive toxicity Calculation method STOT - single exposure Calculation method STOT - repeated exposure Calculation method | Skin sensitisation | Calculation method |
| Reproductive toxicity Calculation method STOT - single exposure Calculation method STOT - repeated exposure Calculation method | Mutagenicity | Calculation method |
| STOT - single exposure STOT - repeated exposure Calculation method | Carcinogenicity | Calculation method |
| STOT - repeated exposure Calculation method Calculation method Chronic aquatic toxicity Calculation method Calculation method Calculation method Calculation method | Reproductive toxicity | Calculation method |
| Acute aquatic toxicity Chronic aquatic toxicity Calculation method Calculation method Calculation method | STOT - single exposure | Calculation method |
| Chronic aquatic toxicity Calculation method Calculation method | STOT - repeated exposure | Calculation method |
| Aspiration hazard Calculation method | Acute aquatic toxicity | Calculation method |
| | Chronic aquatic toxicity | Calculation method |
| Ozone Calculation method | Aspiration hazard | Calculation method |
| | Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision Note Reformatted and updated existing information

Revision date 19-Jul-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 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

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SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 18-Jul-2023 Revision Number 3.1

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

1.1. Product identifier

Product Name Quick Start Bradford Reagent, 1X

Catalogue Number(s) 5000205, 5000205EDU

Nanoforms Not applicable

Pure substance/mixture Mixture

Contains Phosphoric acid. Methanol

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

Corporate Headquarters

Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547

USA

Manufacturer

Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd 2000 Alfred Nobel Drive Bio-Rad Laboratories Ltd The Junction

Hercules, California 94547

USA

Legal Entity / Contact Address

The Junction Station Road Watford, WD17 1ET

UK

Bio-Rad Laboratories Pvt. Ltd.

Bio-Rad House

86-87, Udyog Vihar Phase IV Gurgaon

122005 Haryana India

Bio-Rad Laboratories (Pty) Ltd.

34 Bolton Road

Parkwood, Johannesburg 2193

South Africa

For further information, please contact

Technical Service 00800 00246 723

Ireland: Techsupport.UK@bio-rad.com India: support.india@bio-rad.com

South Africa: cdg_techsupport_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611

SECTION 2: Hazards identification

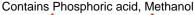
2.1. Classification of the substance or mixture

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Pegulation (EC) No 1272/2008

| Regulation (EC) NO 1272/2006 | |
|--|------------------------------------|
| Acute toxicity - Oral | Category 4 - (H302) |
| Skin corrosion/irritation | Category 1 Sub-category B - (H314) |
| Serious eye damage/eye irritation | Category 1 - (H318) |
| Specific target organ toxicity — single exposure | Category 1 |

2.2. Label elements





Danger

Hazard statements

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H370 - Causes damage to organs

Precautionary Statements - EU (§28, 1272/2008)

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower] P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P331 - Do NOT induce vomiting

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

P280 - Wear protective gloves/protective clothing/eye protection/face protection

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | Weight-% | REACH registration | EC No (EU | Classification according | Specific | M-Factor | M-Factor |
|-----------------|----------|--------------------|-------------|--------------------------|------------------|----------|-------------|
| | | number | Index No) | to Regulation (EC) No. | concentration | | (long-term) |
| | | | | 1272/2008 [CLP] | limit (SCL) | | |
| Phosphoric acid | 5 - 10 | No data available | (015-011-00 | Acute Tox. 4 (H302) | Eye Irrit. 2 :: | - | - |
| 7664-38-2 | | | -6) | Skin Corr. 1B (H314) | 1%<=C<3% | | |
| | | | 231-633-2 | Eye Dam. 1 (H318) | Skin Corr. 1B :: | | |
| | | | | | C>=5% | | |
| | | | | | Skin Irrit. 2 :: | | |
| | | | | | 1%<=C<5% | | |
| Methanol | 5 - 10 | No data available | (603-001-00 | Acute Tox. 3 (H301) | STOT SE 1 :: | - | - |
| 67-56-1 | | | -X) | Acute Tox. 3 (H311) | C>=1% | | |
| | | | 200-659-6 | Acute Tox. 3 (H331) | | | |
| | | | | STOT SE 1 (H370) | | | |
| | | | | Flam. Liq. 2 (H225) | | | |

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Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | Dermal LD50 | Inhalation LC50 - 4 | Inhalation LC50 - 4 | Inhalation LC50 - 4 |
|------------------------------|-----------------|-------------|--|----------------------|--|
| | | mg/kg | hour - dust/mist - mg/L | hour - vapour - mg/L | hour - gas - ppm |
| Phosphoric acid 7664-38-2 | 1530 | 2740 | Inhalation LC50 Rat >850 mg/m³ 1 h (Source: NLM_CIP) 0.2125 | >850 | Inhalation LC50 Rat >850 mg/m³ 1 h (Source: NLM_CIP) |
| Methanol 67-56-1 | 6200 | 15840 | Inhalation LC50 Rat 22500 ppm 8 h (Source: JAPAN_GHS) | 41.6976 | Inhalation LC50 Rat 22500 ppm 8 h (Source: JAPAN_GHS) |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eve wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical attention.

Skin contactWash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Get immediate medical attention.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get immediate medical attention.

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. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Wear personal protective clothing (see section 8).

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

Symptoms Burning sensation.

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

Note to doctors Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible

perforation of stomach or esophagus should be investigated. Do not give chemical

antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may

occur with moist rales, frothy sputum, and high pulse pressure.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating gases and vapours.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate

ventilation. Use personal protective equipment as required. Evacuate personnel to safe

areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before

reuse.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

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not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store locked up. Store away from other materials. Store according to product and label instructions.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|-----------------|------------------------------|---------------------------------|-----------------------------|------------------------------|-----------------------------|
| Phosphoric acid | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | STEL: 2.0 mg/m ³ | TWA: 1 mg/m ³ |
| 7664-38-2 | STEL: 2 mg/m ³ | STEL 2 mg/m ³ | STEL: 2 mg/m ³ | TWA: 1.0 mg/m ³ | STEL: 2 mg/m ³ |
| Methanol | TWA: 200 ppm | TWA: 200 ppm | TWA: 200 ppm | TWA: 200 ppm | TWA: 200 ppm |
| 67-56-1 | TWA: 260 mg/m ³ | TWA: 260 mg/m ³ | TWA: 266 mg/m ³ | TWA: 260.0 mg/m ³ | TWA: 260 mg/m ³ |
| | * | STEL 800 ppm | STEL: 250 ppm | K* | * |
| | | STEL 1040 mg/m ³ | STEL: 333 mg/m ³ | | |
| | | H* | D* | | |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Phosphoric acid | STEL: 2.0 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ |
| 7664-38-2 | TWA: 1 mg/m ³ | Ceiling: 2 mg/m ³ | STEL: 2 mg/m ³ | STEL: 2 mg/m ³ | STEL: 2 mg/m ³ |
| Methanol | * | TWA: 250 mg/m ³ | TWA: 200 ppm | TWA: 200 ppm | TWA: 200 ppm |
| 67-56-1 | TWA: 200 ppm | Ceiling: 1000 mg/m ³ | TWA: 260 mg/m ³ | TWA: 250 mg/m ³ | TWA: 270 mg/m ³ |
| | TWA: 260 mg/m ³ | D* | H* | STEL: 250 ppm | STEL: 250 ppm |
| | | | STEL: 400 ppm | STEL: 350 mg/m ³ | STEL: 330 mg/m ³ |
| | | | STEL: 520 mg/m ³ | A* | iho* |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| Phosphoric acid | TWA: 0.2 ppm | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ |
| 7664-38-2 | TWA: 1 mg/m ³ | | Peak: 4 mg/m ³ | STEL: 3 mg/m ³ | STEL: 2 mg/m ³ |
| | STEL: 0.5 ppm | | | | |
| | STEL: 2 mg/m ³ | | | | |
| Methanol | TWA: 200 ppm | TWA: 100 ppm | TWA: 100 ppm | TWA: 200 ppm | TWA: 260 mg/m ³ |
| 67-56-1 | TWA: 260 mg/m ³ | TWA: 130 mg/m ³ | TWA: 130 mg/m ³ | TWA: 260 mg/m ³ | b* |
| | STEL: 1000 ppm | H* | Peak: 200 ppm | STEL: 250 ppm | |
| | STEL: 1300 mg/m ³ | | Peak: 260 mg/m ³ | STEL: 325 mg/m ³ | |
| | * | | * | * | |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| Phosphoric acid | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ |
| 7664-38-2 | STEL: 2 mg/m ³ | STEL: 2 mg/m ³ | STEL: 3 mg/m ³ | STEL: 2 mg/m ³ | STEL: 2 mg/m ³ |
| Methanol | TWA: 200 ppm | TWA: 200 ppm | TWA: 200 ppm | TWA: 200 ppm | O* |
| 67-56-1 | TWA: 260 mg/m ³ | TWA: 260 mg/m ³ | TWA: 262 mg/m ³ | TWA: 260 mg/m ³ | TWA: 200 ppm |
| | STEL: 600 ppm | cute* | STEL: 250 ppm | Ada* | TWA: 260 mg/m ³ |
| | STEL: 780 mg/m ³ | | STEL: 328 mg/m ³ | | |
| | Sk* | B.4. Iv | cute* | N. | D.I. I |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| Phosphoric acid | STEL: 2 mg/m ³ | STEL: 2 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | STEL: 2 mg/m³ |
| 7664-38-2 | TWA: 1 mg/m ³ | TWA: 1 mg/m ³ | STEL: 2 mg/m ³ | STEL: 3 mg/m ³ | TWA: 1 mg/m ³ |
| Methanol | Peau* | skin* | TWA: 133 mg/m ³ | TWA: 100 ppm | STEL: 300 mg/m ³ |
| 67-56-1 | TWA: 200 ppm | TWA: 200 ppm | H* | TWA: 130 mg/m ³ | TWA: 100 mg/m ³ |

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| Chemical name Phosphoric acid | | c: 260 mg/m³ Portugal A: 1 mg/m³ | TWA: 260 mg/m³ Romania TWA: 1 mg/m³ | Slovakia TWA: 1 mg/m³ | STEL: 1 | 150 ppm 62.5 mg/m³ H* ovenia 1 mg/m³ | Prohibited - substances or mixtures containing Methanol in weight concentration >3%;except fuels used in the model building, powerboating, fuel cells and biofuels skóra* Spain TWA: 1 mg/m³ |
|-------------------------------|-----|--|---|----------------------------------|---------|--|--|
| 7664-38-2 | STE | EL: 2 mg/m ³ | STEL: 2 mg/m ³ | Ceiling: 2 mg/m ³ | STEL: | : 2 mg/m ³ | STEL: 2 mg/m ³ |
| Methanol 67-56-1 | | A: 200 ppm | TWA: 200 ppm | TWA: 200 ppm | | 200 ppm 260 mg/m ³ | TWA: 200 ppm |
| 07-30-1 | | : 260 mg/m ³ :L: 250 ppm | TWA: 260 mg/m ³ P* | TWA: 260 mg/m ³ K* | | 800 ppm | TWA: 266 mg/m ³ vía dérmica* |
| | | Cutânea* | · | | | 040 mg/m ³ K* | |
| Chemical name | | Sı | weden | Switzerland | | Uni | ted Kingdom |
| Phosphoric acid | | | : 1 mg/m³ | TWA: 2 mg/m | | | VA: 1 mg/m ³ |
| 7664-38-2 | | | KGV: 2 mg/m ³ | STEL: 4 mg/m | | | EL: 2 mg/m³ |
| Methanol | | | 200 ppm | TWA: 200 ppr | | | /A: 200 ppm |
| 67-56-1 | | | 250 mg/m ³ e KGV: 250 ppm | TWA: 260 mg/r STEL: 400 ppr | | | A: 266 mg/m³ EL: 250 ppm |
| | | | KGV: 350 mg/m ³ | STEL: 520 mg/s | | | L: 333 mg/m ³ |
| | | . ag.saanas | H* | H* | | | Sk* |

Biological occupational exposure limits

| Chemical name | European Union | Austria | Bulg | garia | Croatia | | Czech Republic |
|---------------------|---|----------------|-------------|-------------|-------------------|-------|---------------------------------|
| Methanol | - | - | | - | 7.0 mg/g Creatir | | 0.47 mmol/L (urine - |
| 67-56-1 | | | | | urine (Methano | | |
| | | | | | the end of the | work | shift) |
| | | | | | shift | | 15 mg/L (urine - |
| | | | | | | | Methanol end of |
| | | | | | | | shift) |
| Chemical name | Denmark | Finland | Fra | | Germany DF | | Germany TRGS |
| Methanol | - | - | | urine | 15 mg/L - uri | | 15 mg/L (urine - |
| 67-56-1 | | | , | l) - end of | (Methanol) - er | nd of | Methanol end of |
| | | | sh | nift | shift | | shift) |
| | | | | | 15 mg/L - uri | | 15 mg/L (urine - |
| | | | | | (Methanol) - | for | Methanol for |
| | | | | | long-term | | long-term |
| | | | | | exposures: at | | exposures: at the |
| | | | | | | | end of the shift after |
| Ob | I I book many | lastes | -I | 14 = I. | several shift | S | several shifts) |
| Chemical name | Hungary | Irelan | - | Italy | / MDLPS | | Italy AIDII |
| Methanol | 30 mg/L (urine - Methanol | | | | - | | 15 mg/L - urine |
| 67-56-1 | end of shift) | (Methanol) - e | nd of Shift | | | (ivie | thanol) - end of shift |
| | 940 µmol/L (urine - Methanol end of shift) | | | | | | |
| Chemical name | | Luvembe | N. I.F.O. | D | omania | | Slovakia |
| | Latvia | Luxembo | burg | | | 20 | |
| Methanol 67-56-1 | - | - | | | rine (ivietnanoi) | | g/L (urine - Methanol |
| 67-56-1 | | | | - er | id of Stillt | ena | of exposure or work |
| | | | | | | 20 m | shift) g/L (urine - Methanol |
| | | | | | | | ter all work shifts) |
| Chemical name | Slovenia | Spair |) | Sw | itzerland | | United Kingdom |
| Methanol | 15 mg/L - urine | | | | rine - Methanol | | - |
| 67-56-1 | (Methanol) - at the end of | | | | hift, and after | | - |
| 0, 30 | the work shift; for | | | | al shifts (for | | |
| | 1.0 WOIN OILL, 101 | | | 001016 | 21 31 III (101 | | |

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| long-term exposure: at the | long-term exposures)) |
|-----------------------------|----------------------------|
| end of the work shift after | 936 µmol/L (urine - |
| several consecutive | Methanol end of shift, and |
| workdays | after several shifts (for |
| | long-term exposures)) |

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protectionNo protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

None known

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 aqueous solution
Colour light blue
Odour Alcohol.

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point No data available
Boiling point / boiling range 64.72 °C

Soling point / boiling range 04.72 C

Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available limits

Flash pointNo data availableNone knownAutoignition temperatureNo data availableNone known

Decomposition temperatureNo data availableNone knownpHNo data availableNone known

pH (as aqueous solution) No data available No information available

Kinematic viscosity
Dynamic viscosity
No data available
None known
No data available
None known
Water solubility
Miscible in water

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressureNo data availableNone known

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Quick Start Bradford Reagent, 1X

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No data available Relative density None known

Bulk density No data available **Liquid Density** No data available No data available

Vapour density

Particle characteristics

Particle Size No information available **Particle Size Distribution** No information available

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

None known

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidising agent.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Corrosive by inhalation.

> (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage.

(based on components). Corrosive to the eyes and may cause severe damage including

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blindness. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,800.00 mg/kg
ATEmix (dermal) 5,058.50 mg/kg
ATEmix (inhalation-dust/mist) 10.00 mg/l
ATEmix (inhalation-vapour) 834.00 mg/l

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------|--------------------|--------------------------|-----------------------------------|
| Phosphoric acid | = 1530 mg/kg (Rat) | = 2740 mg/kg (Rabbit) | > 850 mg/m ³ (Rat) 1 h |
| Methanol | = 6200 mg/kg (Rat) | = 15840 mg/kg (Rabbit) | = 22500 ppm (Rat) 8 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationClassification based on data available for ingredients. Causes severe skin burns and eye

damage.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage. Causes

burns.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE).

Causes damage to organs if swallowed.

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STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life.

Unknown aquatic toxicityContains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------|----------------------|-------------------------|----------------------------|-----------|
| Methanol | - | LC50: =28200mg/L (96h, | | - |
| I methaner | | Pimephales promelas) | | |
| | | LC50: >100mg/L (96h, | | |
| | | Pimephales promelas) | | |
| | | LC50: 19500 - 20700mg/L | | |
| | | (96h, Oncorhynchus | | |
| | | mykiss) | | |
| | | LC50: 18 - 20mL/L (96h, | | |
| | | Oncorhynchus mykiss) | | |
| | | LC50: 13500 - 17600mg/L | | |
| | | (96h, Lepomis | | |
| | | macrochirus) | | |

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|-----------------|-----------------------|
| Phosphoric acid | -0.9 |
| Methanol | -0.77 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

| Chemical name | PBT and vPvB assessment |
|-----------------|---------------------------------|
| Phosphoric acid | The substance is not PBT / vPvB |
| Methanol | The substance is not PBT / vPvB |

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12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packagingDo not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special Precautions for Users

Special Provisions None

IMDG

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

14.7 Maritime transport in bulk No information available

according to IMO instruments

RID

14.1 UN numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

ADR

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

| Chemical name | French RG number | Title |
|---------------|------------------|-------|
| Methanol | RG 84 | - |
| 67-56-1 | | |

Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

European Union

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.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

H3 - STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Named dangerous substances per Seveso Directive (2012/18/EU)

| Chemical name | Lower-tier requirements (tons) | Upper-tier requirements (tons) |
|--------------------|--------------------------------|--------------------------------|
| Methanol - 67-56-1 | 500 | 5000 |

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

<u>International Inventories</u> Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H370 - Causes damage to organs

Legend

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SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

| Classification procedure | | |
|---|--------------------|--|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used | |
| Acute oral toxicity | Calculation method | |
| Acute dermal toxicity | Calculation method | |
| Acute inhalation toxicity - gas | Calculation method | |
| Acute inhalation toxicity - vapour | Calculation method | |
| Acute inhalation toxicity - dust/mist | Calculation method | |
| Skin corrosion/irritation | Calculation method | |
| Serious eye damage/eye irritation | Calculation method | |
| Respiratory sensitisation | Calculation method | |
| Skin sensitisation | Calculation method | |
| Mutagenicity | Calculation method | |
| Carcinogenicity | Calculation method | |
| Reproductive toxicity | Calculation method | |
| STOT - single exposure | Calculation method | |
| STOT - repeated exposure | Calculation method | |
| Acute aquatic toxicity | Calculation method | |
| Chronic aquatic toxicity | Calculation method | |
| Aspiration hazard | Calculation method | |
| Ozone | Calculation method | |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision Note Reformatted and updated existing information

Revision date 18-Jul-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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End of Safety Data Sheet

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