

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: Rapid Access Developer & Fixer

Manufacturer: Carestream Dental

SDS Expiry: 10 September 2024

Supplier Details: Henry Schein New Zealand
23 William Pickering Drive, Albany
PO Box 101 140, North Shore, Auckland 0745
Ph. 0800 808 855
www.henryschein.co.nz

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –
0800POISON/0800764766 (24 Hours)
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 6 / 8

HSNO Group Standard: Dental Products Corrosive Group Standard 2020 HSR002555

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared – October 2021

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

SAFETY DATA SHEET

according to NOHSC:2011(2003)

Revision Date 6 September 2019

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product code: 6252761FIX
Product name: Rapid Access Fixer
Pure substance/mixture Mixture

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

Identified uses: Photographic chemical. Restricted to professional users.
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

| | |
|---|---|
| Importer HENRY SCHEIN HALAS Level 6, Building 3 189 O'Riordon Street Mascot, New South Wales 2020 Australia | Supplier CARESTREAM HEALTH, INC. 150 Verona Street Rochester, NY, USA 14608 |
|---|---|

For further information, please contact

For questions contact HENRY SCHEIN HALAS: +61 2 96976376

1.4. Emergency telephone number

+(61)-290372994

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

This material is not classified as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

2.2. Label elements

Not Hazardous

2.3. Other hazards

| | |
|------------------------------------|--|
| Properties Affecting Health | May be harmful if swallowed. May be harmful in contact with skin. Causes mild skin irritation. |
| Environmental properties | Harmful to aquatic life with long lasting effects. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous components

| Chemical Name | CAS-No | Weight percent |
|----------------------|-----------|----------------|
| Ammonium thiocyanate | 1762-95-4 | 20-30 |
| Ammonium thiosulfate | 7783-18-8 | 10-20 |
| Sodium bisulfite | 7631-90-5 | <2 |

Non-hazardous ingredients

| Chemical Name | CAS-No | Weight percent |
|---------------|-----------|----------------|
| Water | 7732-18-5 | 50-70 |

4. FIRST AID MEASURES**4.1. Description of first aid measures**

| | |
|-----------------------------------|--|
| General advice | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately if irritation persists. |
| Skin contact | Immediate medical attention is required. Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Wash contaminated clothing before reuse. |
| Ingestion | Immediate medical attention is required. Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. |
| Inhalation | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediate medical attention is required. Administer oxygen if breathing is difficult. If not breathing, give artificial respiration. |
| Protection of first-aiders | Use personal protective equipment. |

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

| | |
|----------------------|---|
| Main symptoms | May cause slight irritation. Hives. Itching. Rashes. Difficulty breathing. Coughing and/ or wheezing. |
|----------------------|---|

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

| | |
|---------------------------|------------------------|
| Notes to physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES**5.1. Extinguishing media****Suitable Extinguishing Media**

Dry chemical, CO₂, alcohol-resistant foam or water spray.

Extinguishing media which shall not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture**Special Hazard**

Thermal decomposition can lead to release of toxic and corrosive gases/vapours. Dried product residue can act as a reducing agent. Reacts violently with oxidizing materials. May cause spontaneous heating and ignition when absorbed on combustible, porous material (e.g. rags, paper, sawdust, cotton, clothing).

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

Hazchem Code

| | |
|--|--|
| Skin and body protection | Impervious clothing. Impervious gloves. Skin contact should be prevented through use of suitable protective clothing, gloves, and footwear, selected with regard of use conditions and exposure potential. |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Other Protective Equipment | Ensure that eyewash stations and safety showers are close to the workstation location. |
| Hygiene measures | Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. |
| Environmental Exposure Controls | Do not allow material to contaminate ground water system. |

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1

| | | | |
|-----------------------|------------------|------------------------|--------------------------|
| Physical state | Liquid | Odour | Odourless |
| Colour | Clear colourless | Odour Threshold | No information available |

Property

| <u>Property</u> | <u>Values</u> | <u>Remarks/ - Method</u> |
|--|--------------------------|--------------------------|
| pH | 5.4 | No information available |
| Melting point/range: | | No information available |
| Freezing Point: | | No information available |
| Boiling point/boiling range | > 100 °C / 212 °F | No information available |
| Flash Point | | No information available |
| Evaporation rate | | No information available |
| Flammability (solid, gas) | | No information available |
| Flammability Limits in Air | | No information available |
| Vapour pressure 22 mbar @ 20 °C | | No information available |
| Vapour density | 0.4 | No information available |
| Relative density | 1.12 | No information available |
| Water Solubility | completely soluble | No information available |
| Solubility in other solvents | | No information available |
| Partition coefficient: n-octanol/water | | No information available |
| Autoignition temperature | | No information available |
| Decomposition temperature | | No information available |
| Viscosity: | | No information available |
| Explosive properties | No information available | |
| Oxidising Properties | No information available | |

9.2

| | |
|-------------------------|--------------------------|
| Softening point | No information available |
| Molecular Weight | No information available |
| Density | No information available |
| Bulk density: | No information available |

10. STABILITY AND REACTIVITY

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with a strong oxidizer or acid may liberate hydrogen cyanide gas. Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas).

10.4. Conditions to avoid

Heat, flames and sparks.

10.5

Acids. Sodium hypochlorite. Strong bases. Strong oxidising agents. Halogenated compounds. Contact with a strong oxidizer or acid may liberate hydrogen cyanide gas. Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas).

10.6

Ammonia. Chloramine. Sulphur oxides. Nitrogen oxides (NOx). Cyanides. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Product Information

| | |
|---------------------|---|
| Inhalation | May be harmful by inhalation. May cause irritation of respiratory tract. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea. |
| Eye contact | May cause slight irritation. |
| Skin contact | May be harmful in contact with skin. Causes skin irritation. |
| Ingestion | May be harmful if swallowed. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea. |

Acute toxicity - Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------|---|-------------|-----------------|
| Water | 90,000 mg/kg (Rat) | | |
| Ammonium thiocyanate | 750 mg/kg (Rat) Oral LD50 Rat 750 mg/kg (Source: NLM_CIP) | | |
| Ammonium thiosulfate | > 2000 mg/kg (Rat) | | |
| Sodium bisulfite | 1420 mg/kg (Rat) | | |

Chronic toxicity

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Subchronic toxicity **Sensitisation**

No information available
May cause sensitisation of susceptible persons.

Target Organ Effects

Eyes. Skin. Respiratory system. Thyroid. Central nervous system.

Other adverse effects

May cause adverse thyroid effects. Overexposure to thiocyanates has been shown to cause thyroid enlargement, decrease in metabolic rate, and symptoms of hypothyroidism in humans and animals.

Symptoms

Irritant. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects

May cause long-term adverse effects in the aquatic environment.

Unknown aquatic toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Product Information

No information available.

Component Information

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|------------------|-------------------|---|---|
| Sodium bisulfite | | 240: 96 h <i>Gambusia affinis</i> mg/L LC50 static | 119: 48 h <i>Daphnia magna</i> mg/L EC50 |

Chronic aquatic toxicity**Product Information**

No information available.

Component Information

No information available.

12.2 Persistence and degradability

Expected to be readily biodegradable.

12.3 Bioaccumulative potential**Bioaccumulative potential** No information available.**Partition coefficient:
n-octanol/water** No information available**12.4 Mobility in soil**

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Waste from residues / unused products** Dispose of in accordance with local regulations.**Contaminated packaging
Advice on safe handling** Do not re-use empty containers. Dispose of in accordance with local regulations.
See Section 8 for more detail**14. TRANSPORT INFORMATION**

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may have a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

ADG Not classified as a dangerous goods.**ICAO/IATA** Not regulated**IMDG/IMO** Not regulated

15. REGULATORY INFORMATION

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

International Inventories

| | |
|----------------------|----------|
| AICS | Complies |
| EINECS/ELINCS | Complies |
| DSL/NDSL | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| NZIoC | Complies |
| TSCA | Complies |

Legend

AICS - Australian Inventory of Chemical Substances
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

National regulatory information

Australia

| Chemical Name | Australia - Standard for the Uniform Scheduling of Drugs and Poisons - Schedule 2 |
|----------------------------------|---|
| Ammonium thiocyanate - 1762-95-4 | A Schedule 5 |

16. OTHER INFORMATION

| | |
|----------------------|-------------------------|
| Revision Date | 6 September 2019 |
| Revision Note | (M)SDS sections updated |

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

according to NOHSC:2011(2003)

Revision Date 10 September 2019

Version 1.01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product code: 6252761DEV
Product name: Rapid Access Developer

Pure substance/mixture Mixture
 Contains Hydroquinone

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

Identified uses: Photographic chemical. Restricted to professional users.
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

| | |
|---|---|
| Importer HENRY SCHEIN HALAS Level 6, Building 3 189 O'Riordon Street Mascot, New South Wales 2020 Australia | Supplier CARESTREAM HEALTH, INC. 150 Verona Street Rochester, NY, USA 14608 |
|---|---|

For further information, please contact
 For questions contact HENRY SCHEIN HALAS: +61 2 96976376

1.4. Emergency telephone number
 CHEMTREC Australia: +(61) 2 90372994
 CHEMTREC International: 1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

| | |
|---------------------------|-------------|
| Skin corrosion/irritation | Category 1 |
| Skin sensitisation | Category 1B |
| Germ cell mutagenicity | Category 2 |
| Carcinogenicity | Category 2 |
| Corrosive to metals | Category 1 |

2.2. Label elements



Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer

H290 - May be corrosive to metals

Precautionary Statements

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P390 - Absorb spillage to prevent material damage

Contains Hydroquinone

2.3. Other hazards

Environmental properties

Very toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous components

| Chemical Name | CAS-No | Weight percent |
|---------------------|------------|----------------|
| Potassium sulfite | 10117-38-1 | 5-10 |
| Hydroquinone | 123-31-9 | 3-5 |
| Sodium borate | 1330-43-4 | <1 |
| Potassium hydroxide | 1310-58-3 | <0.3 |

Non-hazardous ingredients

| Chemical Name | CAS-No | Weight percent |
|---------------|-----------|----------------|
| Water | 7732-18-5 | 80-90 |

4. FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|-----------------------|--|
| General advice | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. |
| Eye contact | Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. |
| Skin contact | Immediate medical attention is required. Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Wash contaminated clothing before reuse. |
| Ingestion | Immediate medical attention is required. Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. |
| Inhalation | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediate medical attention is required. Administer oxygen if breathing is difficult. If not breathing, give artificial respiration. |

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

| | |
|----------------------|--|
| Main symptoms | Corrosive. Burning. Coughing and/ or wheezing. Difficulty breathing. respiratory distress. Causes eye burns. May cause an allergic skin reaction. Irritation. Rashes. Hives. |
|----------------------|--|

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

| | |
|---------------------------|--|
| Notes to physician | May cause sensitisation of susceptible persons. Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically. |
|---------------------------|--|

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use CO₂, dry chemical, or foam.

Extinguishing media which shall not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Special Hazard

Fire or excessive heat may produce hazardous decomposition products.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Hazchem Code

| Component | Hazchem Code |
|---|---|
| Hydroquinone 123-31-9 (3-5) | 2Z (solid, UN2662) |
| Potassium hydroxide 1310-58-3 (<0.3) | 2W (solid, UN1813); 2R (solution, UN1814) |

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection see section 8.

Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Dyke to collect large liquid spills.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3. Specific end use(s)

Specific use(s) Photographic chemical.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits Components with workplace control parameters

| Chemical Name | Australia | ACGIH TLV | The United Kingdom | Germany |
|---------------------|--------------------------|--|---|---------|
| Hydroquinone | TWA 2 mg/m ³ | TWA: 1 mg/m ³ | STEL 1.5 mg/m ³ TWA 0.5 mg/m ³ | |
| Sodium borate | TWA 1 mg/m ³ | STEL 6 mg/m ³ TWA: 2 mg/m ³ | STEL 3 mg/m ³ TWA 1 mg/m ³ | |
| Potassium hydroxide | Peak 2 mg/m ³ | Ceiling: 2 mg/m ³ | STEL 2 mg/m ³ | |

Biological standards

| | |
|--|---|
| Engineering Measures | Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Personal protective equipment | |
| Eye Protection | Tightly fitting safety goggles. Face-shield. |
| Hand Protection | Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Chemical resistant gloves. |
| Skin and body protection | Impervious clothing. Impervious gloves. Skin contact should be prevented through use of suitable protective clothing, gloves, and footwear, selected with regard of use conditions and exposure potential. |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Other Protective Equipment | Ensure that eyewash stations and safety showers are close to the workstation location. |
| Hygiene measures | Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing. |
| Environmental Exposure Controls | No information available. |

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1

| | | | |
|--|--------------------|--------------------------|--------------------------|
| Physical state | Liquid | Odour | Slight |
| Colour | Clear light yellow | Odour Threshold | No information available |
| Property | Values | Remarks/ - Method | |
| pH | 12.2 | No information available | |
| Melting point/range: | | No information available | |
| Freezing Point: | | No information available | |
| Boiling point/boiling range | > 100 °C | No information available | |
| Flash Point | | No information available | |
| Evaporation rate | | No information available | |
| Flammability (solid, gas) | | No information available | |
| Flammability Limits in Air | | No information available | |
| Vapour pressure 24 mbar @ 20 °C | | No information available | |
| Vapour density | 0.6 | No information available | |
| Relative density | 1.12 | No information available | |
| Water Solubility | completely soluble | No information available | |

| | |
|---|--------------------------|
| Solubility in other solvents | No information available |
| Partition coefficient: n-octanol/water | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity: | No information available |
| Explosive properties | No information available |
| Oxidising Properties | No information available |

| | |
|-------------------------|--------------------------|
| 9.2 | |
| Softening point | No information available |
| Molecular Weight | No information available |
| Density | No information available |
| Bulk density: | No information available |

10. STABILITY AND REACTIVITY

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with strong acids liberates sulphur dioxide.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5

Strong acids. Oxidizing agents.

10.6

Carbon oxides, Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Product Information

| | |
|---------------------|---|
| Inhalation | 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. May cause drowsiness and dizziness. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea. |
| Eye contact | Causes serious eye damage. Corrosive to the eyes and may cause severe damage including blindness. |
| Skin contact | May cause allergic skin reaction. Causes burns. May cause sensitisation by skin contact. |
| Ingestion | Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach. May cause drowsiness and dizziness. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea. |

Acute toxicity - Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------|--|--|--|
| Water | 90,000 mg/kg (Rat) | | |
| Potassium sulfite | >3200 mg/kg (rat) | | |
| Hydroquinone | 375 mg/kg (Rat) Oral LD50 Rat 375 mg/kg (Source: ECHA) | > 4800 mg/kg (Rat) | |
| Sodium borate | 2660 mg/kg (Rat) Oral LD50 Rat 2660 mg/kg (Source: JAPAN_GHS) | 2000 mg/kg (Rabbit) Dermal LD50 Rabbit >2000 mg/kg (Source: IUCLID) | 2 mg/m ³ (Rat) 4 h Inhalation LC50 Rat >2 mg/m ³ 4 h (Source: HSDB) |
| Potassium hydroxide | 284 mg/kg (Rat) Oral LD50 Rat 284 mg/kg (Source: JAPAN_GHS) | | |

Chronic toxicity**Carcinogenicity**

Contains a known or suspected carcinogen.

| Chemical Name | European Union | The United Kingdom |
|---------------|----------------|--------------------|
| Hydroquinone | Carc. 2 | |

Corrosivity

Risk of serious damage to eyes Causes burns

Sensitisation

This mixture contains hydroquinone which is classified as a dermal sensitizer in some jurisdictions. A very similar mixture was negative in dermal sensitization studies with and without prior sensitization to hydroquinone. Based on the results of these studies, this mixture is not expected to present a dermal sensitization hazard to humans. May cause sensitisation by skin contact.

Reproductive toxicity

Contains ingredients that are suspected reproductive hazards. However, based on available data the product should not be classified for reproductive effects.

Mutagenic effects

Contains a known or suspected mutagen.

Target Organ Effects

No information available.

Other adverse effects

Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach. May cause drowsiness and dizziness.

Symptoms

Causes burns. 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. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Causes severe eye damage. Allergic skin reactions including rash, dermatitis, irritation, and itching.

12. ECOLOGICAL INFORMATION

12.1 Toxicity**Ecotoxicity effects**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Unknown aquatic toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Product Information

No information available.

Component Information

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|-------------------|--|---|---|
| Potassium sulfite | | 220 - 460: 96 h <i>Leuciscus idus</i> mg/L LC50 static | |
| Hydroquinone | 0.335: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 13.5: 120 h <i>Desmodesmus subspicatus</i> mg/L | 0.044: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 0.044: 96 h <i>Pimephales promelas</i> mg/L | 0.29: 48 h <i>Daphnia magna</i> mg/L EC50 |

| | | | |
|---------------------|--|---|--|
| | EC50 | LC50 flow-through 0.1 - 0.18: 96 h Pimephales promelas mg/L LC50 static 0.17: 96 h Brachydanio rerio mg/L LC50 | |
| Sodium borate | 158: 96 h Desmodesmus subspicatus mg/L EC50 2.6 - 21.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static | 340: 96 h Limanda limanda mg/L LC50 | 1085 - 1402: 48 h Daphnia magna mg/L LC50 |
| Potassium hydroxide | | 80: 96 h Gambusia affinis mg/L LC50 static | |

Chronic aquatic toxicity**Product Information**

No information available.

Component Information

No information available.

12.2 Persistence and degradability

No data is available on the product itself. Expected to be readily biodegradable.

12.3 Bioaccumulative potential**Bioaccumulative potential**

.

Partition coefficient:

No information available

n-octanol/water

| Chemical Name | log Pow |
|---------------------|---------|
| Hydroquinone | 0.5 |
| Potassium hydroxide | 0.65 |
| | 0.83 |

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Waste from residues / unused products**

Dispose of in accordance with local regulations.

Contaminated packaging Advice on safe handling

Do not re-use empty containers. Dispose of in accordance with local regulations. See Section 8 for more detail

14. TRANSPORT INFORMATION

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may have a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

Standard packaging configuration is not in compliance with IATA requirements, so shipment by aircraft is forbidden unless product is re-packaged per appropriate IATA Packing Instruction.

ADG

| | |
|-----------------------------|---|
| UN Number | UN3266 |
| Proper Shipping Name | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S |
| Technical Name | Potassium hydroxide |
| Hazard class | 8 |
| Packing Group | III |
| Description | UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (Potassium hydroxide), 8, III, Limited Quantity |
| Special Provisions | 223, 274 |

ICAO/IATA

| | |
|-----------------------------|---|
| UN/ID no | UN3266 |
| Proper Shipping Name | Corrosive liquid, basic, inorganic, n.o.s. |
| Technical Name | Potassium hydroxide |
| Hazard class | 8 |
| Packing Group | III |
| Description | UN3266, Corrosive liquid, basic, inorganic, n.o.s (Potassium hydroxide), 8, III |
| ERG Code | 8L |
| Special Provisions | A3, A803 |

IMDG/IMO

| | |
|-----------------------------|---|
| UN/ID no | UN3266 |
| Proper Shipping Name | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S |
| Technical Name | Potassium hydroxide |
| Hazard class | 8 |
| Packing Group | III |
| Description | UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (Potassium hydroxide), 8, III, Limited Quantity |
| EmS | F-A, S-B |
| Special Provisions | 223, 274 |

| |
|-----------------------------------|
| 15. REGULATORY INFORMATION |
|-----------------------------------|

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

| | |
|----------------------|----------|
| AICS | Complies |
| EINECS/ELINCS | Complies |
| DSL/NDSL | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| NZIoC | Complies |
| TSCA | Complies |

Legend

AICS - Australian Inventory of Chemical Substances
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

National regulatory information**Australia**

| | |
|----------------------|--|
| Chemical Name | Australia - Standard for the Uniform Scheduling of Drugs and Poisons - Schedule 2 |
|----------------------|--|

| | |
|---------------------------------|---|
| Hydroquinone - 123-31-9 | 1, 4 (except when in Schedule 2 or 4) 45 (when included in Schedule 2) A (when included in Schedule 2); A, G2, G3, E2, R2, S1 (when included in Schedule 4 or 6) Schedule 2 Schedule 6 |
| Potassium hydroxide - 1310-58-3 | 1, 4, 6 (in preparations containing $\leq 0.5\%$ of Potassium hydroxide); 3, 5, 28 (in solid preparations containing $> 0.5\%$ of Potassium hydroxide); 3, 5 (in liquid preparations containing $> 0.5\%$ of Potassium hydroxide) 5 (in preparations containing $\leq 0.5\%$ of Potassium hydroxide); 2, 10, 78 (in solid or liquid preparations containing $> 0.5\%$ of Potassium hydroxide) A, G3, E2, S1 Schedule 5 Schedule 6 |
| Chemical Name | Australia - Food Standards |
| Potassium hydroxide - 1310-58-3 | Generally permitted processing aids |

16. OTHER INFORMATION

| | |
|----------------------|-------------------------|
| Issuing Date | 5 February 2014 |
| Revision Date | 10 September 2019 |
| Revision Note | (M)SDS sections updated |

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet