

Signal Words:

Warning

Hazard Statements:

Causes skin irritation.
 May cause an allergic skin reaction.
 Causes serious eye irritation.
 Suspected of causing cancer.
 Suspected of damaging fertility or the unborn child.
 Toxic to aquatic life.

Precautionary Statements:**Prevention**

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Avoid breathing fume, vapors, spray.
 Wash exposed skin thoroughly after handling.
 Contaminated work clothing should not be allowed out of the workplace.
 Avoid release to the environment.
 Wear protective gloves.

Response

If exposed or concerned: Get medical advice.
 If skin irritation or rash occurs: Get medical advice.
 If eye irritation persists: Get medical advice.
 IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing.
 IF IN EYES: Rinse cautiously with water for several minutes.
 IF ON SKIN: Wash with plenty of water.
 Take off contaminated clothing. And wash it before reuse.

Storage

Store locked up.

Disposal

Dispose of contents in accordance with all local, regional, national and international regulations. Dispose of container in accordance with all local, regional, national and international regulations.

Section 3. Composition/information on ingredients

Substances

No available data for this section.

Mixtures

Identifiers	Ingredients	Percentage	Classification
7757-83-7	Sodium Sulfite	8%	
1310-58-3	Potassium Hydroxide	0.8%	
123-31-9	Hydroquinone	<3%	

Section 4. First-Aid Measures

Description of First Aid Measures**In the event of splashes or contact with eyes**

Immediately flush with clean, low-pressure water for several minutes. Hold eyelids open to ensure adequate flushing. Remove the contact lenses if worn and easy to do that. If redness or other symptoms persist, seek medical advice / attention.

In the event of splashes or contact with skin

Take off all contaminated clothing and wash it before reuse. Wash contaminated areas thoroughly with water. If redness or other symptoms persist, seek medical advice / attention.

In the event of ingestion

DO NOT INDUCE VOMITING. If swallowed, call a physician immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person. Immediately seek medical attention. If spontaneous vomiting occurs, lean the exposed person forward to reduce the risk of aspiration. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated. Monitor for breathing difficulties. In case of ingestion of large quantities immediately take the exposed person to hospital. If the exposed person is conscious, give lots of water to drink.

In the event of inhalation

Remove person to fresh air and keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt, or waistband. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately. It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious, or corrosive. If person is not breathing, provide artificial respiration.

Most important symptoms and effects, both acute and delayed

No available data for this section.

Indication of any immediate medical attention and special treatment needed

No available data for this section.

Section 5. Firefighting Measures

Extinguishing media

Suitable Extinguishing Media

The suggested appropriate media: Alcohol-type or universal-type foams. Carbon dioxide. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

The product is not flammable or combustible.

Unsuitable Extinguishing Media

No available data for this section.

Special hazards arising from the substance or mixture

Specific Hazards Arising from Combustion of Products

Fire / decomposition hazards: Toxic gases.

Combustion Products

Carbon dioxide (CO₂).

Advice for firefighters

Protective Measures for Fire-Fighting

Wear self-contained breathing apparatus. Wear full protective clothing.

Special Protective Actions for Fire-Fighters

Avoid being exposed to gas / mist / dust / fume / vapor / spray / particles.

Other Information for Fire Fighters

Potassium Hydroxide and hydroquinone dust are corrosive. Carbon dioxide is produced by decomposition of the hydroquinone.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Hydroquinone	
Ontario, Canada OEL (TWAEV)	2.000000 mg/m3.
British Columbia, Canada OEL (TWA)	1.000000 mg/m3.
ACGIH USA (TLV)	1.000000 mg/m3.
Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants (TWAEV)	2 mg/m3.
Sodium Sulfite	
OSHA PEL	Not established.
ACGIH TLV	Not established.
Potassium Hydroxide	
OSHA PEL (Vacated)	2 mg/m3, Ceiling.
ACGIH	2 mg/m3, Ceiling.

Exposure controls

Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Protection

No special respiratory protection specified for the product.

Eye/Face Protection

Wear safety goggles. In industrial plants or large production areas, ensure eye-wash stations are available. For use in small settings or offices, a procedure and training for washing eyes in a sink is recommended.

Skin and Body Protection

Wear appropriate chemical resistant clothing.

Hand Protection

Ensure gloves are certified. Wear impermeable gloves.

Hygiene Measures

No available data for this section.

Environmental exposure controls

No available data for this section.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Slight yellowish tint
Odor	Odorless
Odor threshold	Not available
pH	10 to 10.4

Melting point	Lesser than 0°C / 32°F
Boiling point	Greater than 100°C / 212°F
Flash Point	Not applicable
Evaporation rate	1 multiplier w/r/t butyl acetate
Flammability	Non-flammable
Flammability limit	Not available
Vapor pressure	15 to 17 mmHg
Vapor density	0.5 to 0.7 g/cm ³
Relative density	1.06 to 1.08 multiplier w/r/t water @20C
Solubility	Soluble Completely in water
Solubility in other solvents	Not available
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Freezing point	Not available
Percent volatiles	95 %vol
Evaporation rate w/r/t butyl acetate	1
Relative density w/r/t water	1.06 to 1.08 Conditions of Measurement: Temperature: 20°C / 68°F Pressure: 101.3kPa
Relative density w/r/t air	Not available

Other Information

No available data for this section.

Section 10. Chemical Stability & Reactivity Information

Reactivity

Chemical stability: This product is stable under ambient condition.

Chemical Stability

No available data for this section.

Possibility of Hazardous Reactions

The product decomposes in high temperatures and produces toxic gas or vapor.

Conditions to Avoid

Keep away from: Direct sunlight. Fire. Heat.

Incompatible Materials

Avoid contact or storage with: Acidic materials. Metal surfaces. Strong oxidizers.

Hazardous Decomposition Products

Decomposition will Result in Production of: Carbon dioxide (CO₂).

Section 11. Toxicological Information

Information on toxicological effects

Toxicological Information for Product

No available data for this section.

Toxicological Information for Component

Sodium Sulfit

LC 50 Inhalation >5.5 mg/l(4h), Rat.

LD 50 Oral 2610 mg/kg, Rat.

Hydroquinone

IARC Group 3: Not classifiable as to its carcinogenicity to humans.

Carcinogenicity This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies.

Germ Cell Mutagenicity Laboratory experiments have shown mutagenic effects. In vitro tests showed mutagenic effects.

LD 50 Dermal >2000 mg/kg, Rabbit.

LD 50 Oral 367.3 mg/kg, Rat.
302-320 mg/kg, Rat.
245 - 350 mg/kg, Mouse.
200 mg/kg, Rabbit.

Potassium Hydroxide

LD 50 Oral 333 mg/kg, Rat.
2967 mg/kg, Rat.

Irritation/Corrosion Information for Product

No available data for this section.

Irritation/Corrosion Information for Component

No available data for this section.

Section 12. Ecological Information

Toxicity

Ecotoxicity Values for Product

No available data for this section.

Ecotoxicity Values for Component

Potassium Hydroxide

LC 50 Fish: 80 mg/l(6hr), *Gambusia affinis* (mosquito fish). 165 mg/l(24hr), *Poecilia reticulata*.

LD 50 Fish: 50 mg/l(24h), *Salvelinus fontinalis* (brook trout).

Hydroquinone

LC 50 Fish: 259.7 u/l, Rainbow Trout, Donaldson Trout. 0.04 - 0.1 mg/l(96hr), *Oncorhynchus mykiss* (rainbow trout). 0.097 mg/L(96hr), Rainbow Trout. 0.1 - 0.18 mg/L(96hr), Fathead Minnow.

EC 50 Crustaceans: 0.13 mg/l(48hr), *Daphnia magna* (water flea).

Crustaceans: Acute Aquatic Toxicity - Category 2.

Sodium Sulfit

LC 50 Fish: 12500 - 13000 mg/l(96hr), *Lepomis macrochirus*, Fresh Water.

Persistence and degradability

No available data for this section.

Bioaccumulative potential

Bioaccumulative Potential for Product

No available data for this section.

Bioaccumulative Potential for Component

No available data for this section.

Mobility in soil

No available data for this section.

Results of PBT and vPvB assessment

No available data for this section.

Other adverse effects

No available data for this section.

Section 13. Disposal Considerations

Waste treatment methods

Waste Disposal Regulation(s) / Operation

Do not dispose in drain. Transfer to a suitable container and arrange for collection by specialized disposal company. May be discharged to wastewater treatment installation. Users need to pay attention to the possible existence of regional or national regulations regarding disposal. Disposal, treatment, or recycling of industrial waste must comply with applicable regulations to preserve the environment.

Waste Treatment Methods

No available data for this section.

Section 14. Transportation Information

	ADR	IMDG	IATA	DOT
UN number	No available data for this section.	No available data for this section.	No available data for this section.	No available data for this section.
UN proper shipping name	Not regulated for transport.	Not regulated for transport.	Not regulated for transport.	Not regulated for transport.
Transport hazard class(es)	Not regulated for transport.	Not regulated for transport.	Not regulated for transport.	Not regulated for transport.
Packing group	No available data for this section.	No available data for this section.	No available data for this section.	No available data for this section.
Environmental hazards	No available data for this section.	No available data for this section.	No available data for this section.	No available data for this section.
Special precautions for user	No available data for this section.			
Transport in bulk according to Annex II of Marpol and the IBC Code	No available data for this section.			
Other	This product is not regulated for transport			

Section 15. Regulatory Information

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

Safety, Health and Environmental Regulations for Product

No available data for this section.

Safety, Health and Environmental Regulations for Component

Hydroquinone

DSCL (EEC):	Causes eye irritation. Moderate Skin Irritant.
WHMIS (Canada):	D-1B: Toxic material. D-2A: Toxic material.
Federal and State Regulations:	PA, MA. TSCA 8(b) inventory. 302/304/311/312 extremely hazardous substances. SARA 313 toxic chemical notification and release reporting. CERCLA: Hazardous substances.

Potassium Hydroxide

Section 12b:	Not present.
DSL (Canada):	Present.
TSCA:	Present.
TSCA Significant New Use Rule:	Not present.
SARA:	Section 302 (RQ): 1000 pounds (454 kg). Section 302 (TPQ): None. Section 313: None. SARA Codes: acute, reactive.
IDL (Canada):	Present.
Chemical Test Rules:	Not present.
WHMIS (Canada):	D-1B: Toxic material.

Sodium Sulfite

Canada:	Listed on Canada's DSL List.
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Chemical safety assessment

No available data for this section.

Section 16. Other Information

Disclaimer

The above information is accurate to the best of our knowledge, however since data, safety standards and government regulations change, and the conditions of handling and use or misuse are beyond our control, manufacturer and distributor above mentioned make no warranty either expressed or implied with respect to the completeness or continuing accuracy of information herein and disclaims all liability for reliance thereon. Do not use ingredient information and / or ingredient percentages in this SDS as a product specification.

Glossary

ACGIH: American Conference of Governmental Industrial Hygienists.

ADR: American Depositary Receipt.

DOT: Department of Transportation, USA.

DSCL: Dangerous Substances Classification and Labeling.

DSL: Department Safety Liaison.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IDL: Ingredients Disclosure List.

IMDG: International Maritime Dangerous Goods.

LC 50: Lethal Concentration which is lethal to 50% of the population.

LD 50: Lethal Dose which is lethal to 50% of the population.

N/A: Not applicable.

N/AV: Not available.

N/D: Not determined.

OSHA: US Occupational Safety and Health Administration, US Department of Labor.

PEL: Permissible exposure limit. An exposure limit that is published and enforced by OSHA as a legal standard.

PBT: Persistent, Bioaccumulative and Toxic.

SARA: Superfund Amendments and Reauthorization Act.

TLV: Threshold Limit Value.

TSCA: Toxic Substances Control Act.

TWA: Time Weighted Average.

vPvB: Very Persistent and Very Bioaccumulative.

WHMIS: Workplace Hazardous Materials Information System.

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