

MATERIAL SAFETY DATA SHEET**Product Name:** Hydroquinone**CAS No.:** 123-31-9**Version:** 0**1. Identification**

Product Code : 90427
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2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 4
Serious eye damage : Category 1
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 2
Carcinogenicity : Category 2
Reproductive toxicity : Category 2
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

Label elements**Hazard symbol**

Signal word : Danger

Hazard statement : Harmful if swallowed.
May cause an allergic skin reaction.
Causes serious eye damage.
Suspected of causing genetic defects.
Suspected of causing cancer.
Very toxic to aquatic life with long lasting effects.

Precautionary statement : Avoid release to the environment.
Wear protective gloves/ eye protection/ face protection.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Dispose of contents/ container to an approved waste disposal plant.

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Ingredient	CAS No	Percent
Hydroquinone	123-31-9	NLT- 99.0%

4. First Aid Measures**Description of first aid measures**

- General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact** : Wash off with soap and plenty of water. Consult a physician.
- Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Swallowed** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed** : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed Treatment** : No data available

5. Fire fighting measures**Extinguishing media**

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture** : Carbon oxides
- Advice for firefighters** : Wear self contained breathing apparatus for fire fighting if necessary
- Further information** : No data available

MATERIAL SAFETY DATA SHEET

Product Name: Hydroquinone

CAS No.: 123-31-9

Version: 0

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Reference to other sections** : For disposal see section 13.

7. Handling and Storage

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Air and light sensitive.
Non Combustible Solids
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Personal protective equipment**
- Eye/face protection** : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin Protection Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.

MATERIAL SAFETY DATA SHEET**Product Name:** Hydroquinone**CAS No.:** 123-31-9**Version:** 0

- Body Protection** : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection** : Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : White crystalline powder
- Odor** : No data available
- pH** : 3.7 at 70 g/l
- Melting point/freezing point** : 172 - 175 °C
- Initial boiling point and boiling range** : 285 °C
- Flash Point** : 165 °C
- Vapor pressure** : 1 hPa at 132 °C
- Vapor density** : 3.80 - (Air = 1.0)
- Relative density** : 1,332 g/cm³
- Solubility in water** : 50 g/l
- Solubility (other)** : No data available
- Formula** : C₆H₆O₂
- Molecular Weight** : 110.11 g/mol

10. Stability and Reactivity

- Reactivity** : No data available
- Chemical stability** : Stable under recommended storage conditions.
- Possibility of hazardous reactions** : No data available
- Conditions to avoid** : Air Light.
- Incompatible materials** : Strong bases, Strong oxidizing agents
- Hazardous decomposition products** : No data available

11. Toxicological Information**Information on toxicological effects**

- Acute toxicity** : LD50 Oral - Rat - 367,3 mg/kg
(OECD Test Guideline 401)
- LD50 Dermal - Rabbit - > 2.000 mg/kg
(OECD Test Guideline 402)
- Skin corrosion/irritation** : No data available
- Serious eye damage/eye** : No data available

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- Respiratory or skin sensitization** : May cause sensitisation by skin contact.
- Germ cell mutagenicity** : Laboratory experiments have shown mutagenic effects.
- Carcinogenicity** : IARC: 1 - Group 1: Carcinogenic to humans (Chromium trioxide)
- Reproductive toxicity** : Suspected human reproductive toxicant
- Specific target organ toxicity - single exposure** : Inhalation - May cause respiratory irritation.
- Specific target organ toxicity - repeated exposure** : No data available
- Aspiration hazard** : No data available
- Potential health effects**
- Inhalation** : No data available
- Ingestion** : No data available
- Skin** : No data available
- Eyes** : No data available
- Signs and Symptoms of Exposure** : Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

12. Ecological Information

- Toxicity** : Toxicity to fish:
LC50 - Oncorhynchus mykiss (rainbow trout) - 0,04 - 0,1 mg/l - 96,0 h
- Persistence and degradability** : No data available
- Bioaccumulative potential** : No data available
- Mobility in soil** : No data available
- Other adverse effects** : Very toxic to aquatic life with long lasting effects.

13. Disposal consideration

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.
- Contaminated packaging** : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

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	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	3077	Hydroquinone	9	III	Yes
IMDG	3077	Hydroquinone	9	III	Yes
IATA	3077	Hydroquinone	9	III	Yes

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :01/08/2014****Version : 0**

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