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SAFETY DATA SHEET

8-HYDROXYQUINOLINE

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

1.1 Product identifier:	
CAS Number:	148-24-3
EC number:	203-165-0.
1.2 SYNONYMS:	• Oxine • 8-Hydroxyquinoline • 5-Quinolinol • Quinol • 2-Hydroxyquinoline • Quinolin-8-ol

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute Toxicity (oral) (Category 3) Skin Irritation (Category 2) Serious Eye Damage/Eye Irritation (Category 1) Specific Target Organ Toxicity (Repeated Exposure) (Category 2) Carcinogenicity (Category 2)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H301:** Toxic if swallowed.. **H315:** Causes skin irritation. **H318:** Causes serious eye damage. **H412:** Harmful to aquatic life with long-lasting effects **H400:** Very toxic to aquatic life. **H410:** Very toxic to aquatic life with long-lasting effects. **H351:** Suspected of causing cancer.

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Precautionary Statements:	**P273:** Avoid release to the environment. **P301 + P310:** If swallowed: Immediately call a poison center or doctor. **P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and difficult breathing.
Ingestion:	May cause severe gastrointestinal irritation, nausea, vomiting, and abdominal pain.
Skin Contact:	an cause severe burns, irritation, and allergic reactions,
Eye contact:	May cause irritation, redness, pain and burning sensation.
Chronic Exposure:	may lead to liver and kidney damage, as well as potential effects on the nervous system, and may increase the risk of cancer due to its classification as a suspected carcinogen.
Aggravation of pre-existing conditions :	may aggravate pre-existing conditions such as liver or kidney disease, respiratory disorders, and skin conditions like eczema or dermatitis.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 148-24-3, 8-HYDROXYQUINOLINE
Identification number(s):	EC number: 203-165-0

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SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
After skin contact:	Wash with soap and water. Cover the irritated skin with an emollient. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. consult a physician.
After swallowing:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If large quantities swallowed, Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	acute skin and eye irritation, respiratory discomfort from inhalation of dust, and gastrointestinal upset from ingestion, while delayed effects may involve skin sensitization, respiratory sensitization, and persistent gastrointestinal discomfort
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Dry chemical, carbon dioxide, water spray, alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device .

5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3 Methods and material for containment and cleaning up:	Wore chemical protection suit and self-contained breathing apparatus (SCBA). Collect spilled into container and absorb with sand, earth or inert substances. Keep containers tightly sealed. Do not allow water into the container ban chemical exposure. Spray water to reduce vapours. Ventilate the area and wash clean the area spilled material contained closed.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Do not let flame ignition Minimize dust generation and accumulation.

	Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended
8.2 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:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	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
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Solid Crystalline powder
Colour:	White
Odour:	phenolic
pH-value:	Not applicable
Melting point/Melting range:	74°C
Boiling point/Boiling range:	267°C
Flammability (solid, gaseous):	Solid flammable
Ignition temperature:	450°C (approx.)
Decomposition temperature:	>300°C
Self-igniting:	Not applicable
Flash point:	170°C
Danger of explosion:	Not applicable
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	No data available
Density at 20 °C:	1.34 g/cm³ (approx.)
Relative density:	1.34
Vapour density:	5.5
Evaporation rate:	No data available
Solubility in / Miscibility with- ·water at 20 °C:	Sparingly soluble
Partition coefficient:(n-octanol/water)	2.4 (approx.)
Viscosity:	No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper operation and storage conditions.
10.3 Possibility of hazardous reactions	Emit toxic fumes under flame. Highly reactive to flames
10.4 Conditions to avoid	Sensitive to light. It darkens when exposed to light
10.5 Incompatible materials	Strong oxidizing agents, acids.
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat) : 1200 mg/kg **LD50** (Dermal, Rabbit) : no data available **LC50** (Inhalation Rat) : 1210 mg/m3 6 hours
Skin corrosion/Irritation:	can cause skin irritation and dermatitis on repeated exposure.
Serious eye damage/irritation:	can cause serious eye damage and severe irritation.
Respiratory damage/irritation:	may cause respiratory irritation
Ingestion:	may cause nausea, vomiting, abdominal pain
Germ cell mutagenicity:	No data available
Carcinogenicity:	The material is listed under IARC
Reproductive toxicity:	no data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Aquatic Toxicity:	No data available
Biodegradability:	moderately biodegradable

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SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	No data available
12.2 Persistence and degradability:	Moderately degradable
12.3 Bioaccumulative potential:	moderate
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	Do not empty into drains

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	**water and mild soap**, isopropyl alcohol, Acetone, Neutral pH cleaners

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	UN 3077
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	8-HYDROXYQUINOLINE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	Class 9
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	very toxic to aquatic life
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.

15.2 Chemical safety assessment:	Chemical assessment has been carried out under **REACH** regulation.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.