

Safety Data Sheet

Date of issue: 26/01/2011

Supersedes 20/03/2012

according to Regulation (EU) 2015/830

H0168

Version: 2.0

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

1.1. Product identifier	
Product form	: Substance
Trade name	: 8-Hydroxyquinoline
EC Index-No.	: 613-324-00-8
EC-No.	: 205-711-1
CAS-No.	: 148-24-3
REACH registration No	: 01-2120349223-62
Product code	: H0168
Formula	: C9H7NO

Revision date 12/12/2017

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only. Duchefa Biochemie B.V. products are intended
	only for "in vitro laboratory" research purposes.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem - The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

1.4. Emergency telephone number

Emergency number

: Supplier contact information: +31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world directory of poison centres	http://apps.who.int/poisoncentres/	Consult website for a local poison centre

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 3	H301
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 1A	H360D
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Full text of H statements : see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

Hazard pictograms (CLP)		
	GHS05 GHS06 GHS08 GHS09	
Signal word (CLP)	: Danger	
Hazard statements (CLP)	 H301 - Toxic if swallowed. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H360D - May damage the unborn child. H410 - Very toxic to aquatic life with long lasting effects. 	
Precautionary statements (CLP)	 P280 - Wear protective gloves, Protective clothing, face shield, eye protection. P305+P351 - IF IN EYES: Rinse cautiously with water for several minutes. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P273 - Avoid release to the environment P308+P313 - IF exposed or concerned: Get medical advice/attention. 	

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

: 8-Hydroxyquinoline	
: 148-24-3	
: 205-711-1	
: 613-324-00-8	

Name	Product identifier	%
8-Hydroxyquinoline	(CAS-No.) 148-24-3 (EC-No.) 205-711-1	>= 99

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid meas	ures		
First-aid measures after inhalation	: Assure fresh air breathing Get medical advice/attention.		
First-aid measures after skin contact	: Wash skin with mild soap and water Seek medical attention if ill effect or irritation develops.		
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		

Symptoms/effects after ingestion

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First-aid measures after ingestion	: Give water to drink Seek medical attention immediately.
4.2. Most important symptoms	and effects, both acute and delayed
Symptoms/effects	: Affects the nervous system.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in

: Ingestion may cause nausea, vomiting and diarrhea.

breathing.

4.3. Indication of any immediate medical attention and special treatment needed No additional information available

OFOTION F. Fireficktives				
SECTION 5: Firefighting me	asures			
5.1. Extinguishing media				
Suitable extinguishing media	: Dry chemical, CO2, or water spray or regular foam.			
5.2. Special hazards arising from the substance or mixture				
	: Under fire conditions, hazardous fumes will be present			
case of fire	- COx			
	- NOx.			
5.3. Advice for firefighters				
Firefighting instructions	: Prevent fire fighting water from entering the environment.			
Protection during firefighting	 Do not enter fire area without proper protective equipment, including respiratory protection. 			
SECTION 6: Accidental rele	ase measures			
6.1. Personal precautions, protect	ctive equipment and emergency procedures			
General measures	: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.			
6.1.1. For non-emergency personn	el			
Protective equipment	: Wear recommended personal protective equipment.			
Measures in case of dust release	: Avoid dust formation. Do not breathe dust.			
6.1.2. For emergency responders				
No additional information available				
6.2. Environmental precautions				
Prevent entry to sewers and public wa	ters. Avoid release to the environment.			
6.3. Methods and material for co	ntainment and cleaning up			
Methods for cleaning up	: Sweep up dry powder and dispose properly.			
6.4. Reference to other sections				

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Handle in accordance with good
	industrial hygiene and safety procedures.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in dry, well-ventilated area Keep container tightly closed Store at room temperature.

7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Filter type P3 (EN 143)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Molecular mass Colour	 Solid Powder. 145,2 g/mol White light brown.
Odour	: Weak.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 72,5 - 74 °C
Freezing point	: No data available
Boiling point	:267 °C (1.013 hPa)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Light (daylight)
 High temperature.

10.5. Incompatible materials

Strong oxidizers
 Strong acids.

10.6. Hazardous decomposition products

Thermal decomposition generates :

- COx

- NOx.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Toxic if swallowed.

8-Hydroxyquinoline (148-24-3)		
LD50 oral rat	1200 mg/kg	
LC50 inhalation rat (mg/l)	> 1,82 mg/l/4h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitisation	spiratory or skin sensitisation : May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: May damage the unborn child.	
STOT-single exposure	: Not classified	

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STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

8-Hydroxyquinoline (148-24-3)	
LC50 fish 1	18 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

8-Hydroxyquinoline (148-24-3)		
Log Pow	2,02	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information

: Avoid release to the environment. Prevent entry to sewers and public waters

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods
- : Dispose of this material and its container at hazardous or special waste collection point.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

ADR	IMDG	ΙΑΤΑ	
14.1. UN number			
Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name	14.2. UN proper shipping name		
Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	
No supplementary information available			

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14.6. Special precautions for user

Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

8-Hydroxyquinoline is not on the REACH Candidate List 8-Hydroxyquinoline is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

Denmark

Recommendations Danish Regulation

- : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
- : The substance is not listed
- : 8-Hydroxyquinoline is listed
- : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

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1.4	Emergency number	Modified	
2	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	Obsolete
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	Due to harmonization of classification, classification changed from H302 + H 332 to H301 + H318 + H317 + H360D + H400 + H410.
2.2	Precautionary statements (CLP)	Modified	P-sentences changed accordingly to the H-sentences.
2.2	Hazard pictograms (CLP)	Modified	CLP-symbols changed accordingly to changes of H-sentences.
8.2	Respiratory protection	Modified	P2 to P3, due to changing of H- sentences
8.2	Hand protection	Modified	Specified material, thickness, et cetera of gloves

Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: ECHA (European Chemicals Agency). Supplier. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 1A	Reproductive toxicity, Category 1A
Skin Sens. 1	Skin sensitisation, Category 1
H301	Toxic if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product