

Material Safety Data Sheet (MSDS) - Code: 8HLWxx

According to regulation (EC) n°: 1907/2006

Version: 04 - Date: 2nd of January 2024

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

1.1. Product identifiers

Product name:	Hydroxytyrosol 65% aqueous solution (65% hydroxytyrosol - 35% Deionized Water)
CAS No.:	10597-60-1 hydroxytyrosol
Brand:	Polyphenol - HTI® LW Liquid

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

Identified uses: Raw material for Animal Feed

1.3. Details of the supplier of the safety data sheet

Company:	NOVA MENTIS LTD. c/o Nova UCD Belfield Innovation Park D04 V2P1 Belfield (County Dublin) Ireland
Telephone:	+353 1 5846073
Web address:	www.novamentis.eu

1.4. Emergency telephone number

National Poison Information Centre - Beaumont Hospital

Emergency Phone: +353 1 8092566

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008

Classification:	Code:
Skin irritation Category, Category 2	H315
Eye irritation, Category 2	H319

2.2. Label elements

Labelling according to Regulation EC No. 1272/2008

Pictogram:



Signal word:

Warning

Hazard statements: H319 - Can cause eye irritation.

Precautionary statements:

P264 - Wash hands thoroughly after handling.

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.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Physical and chemical hazards: See Section 5.2.

Human health hazards: See Section 4.2.

Environmental hazards: See Section 12.5 and Section 12.6.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not Applicable

3.2. Mixtures

3.2.1. Chemical characteristics

Hydroxytyrosol + Deionised water

3.2.2. Hazardous ingredients

Type	INHA
CAS No	10597-60-1
REACH / EC n°	NA 600-704-3
Substance	Hydroxytyrosol
Content %	≥ 50 - ≤ 80
Classification According to Regulation (EC) No 1272/2008	Skin Irrit. 2: H315 Eye Irrit. 2: H319

4. FIRST AID MEASURES

4.1. Description of first aid measures

If inhaled

If breathed in, move person into fresh air. Keep the patient calm, protect against loss of body heat. If not breathing, seek medical help.

In case of skin contact

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In case of eye contact

Immediately flush eyes with plenty of water for at least 15 minutes occasionally lifting the upper and lower eyelids.

In case of ingestion

Never give anything by mouth to an unconscious person. If conscious give several small portions of water to drink. Do not induce vomiting.

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

May cause skin irritation, serious eye irritation and respiratory irritation.

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

No data available

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5. FIREFIGHTING MEASURES

5.1. Extinguishing media - Suitable extinguishing media

Suitable: Use extinguishing media appropriate to the source of the fire and the surrounding area (e.g. water spray, carbon dioxide, dry powder and foam).

Unsuitable: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

5.2. Special hazards arising from the substance or mixture

The product is not flammable. In case of fire, carbon oxides and other combustion products hazardous to human health may be released.

5.3. Advice for firefighters

Operate in accordance with the provisions of the fire control plan. Evacuate the area, limiting access only to trained personnel. Firefighters must always wear appropriate protective equipment: positive pressure self-contained breathing apparatus [ref. EN 137]; fireproof clothing [ref. EN 469]; fireproof gloves [ref. EN 659]; firefighter's boots [ref. HO A29-A30]. Avoid breathing fumes/gases/ vapors. Stay upwind. Remove containers if this can be done without risk. Alternatively, cool containers exposed to fire with water spray. Prevent the contaminated extinguishing agent flowing into drains or waterways.

5.4. Further information

No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist, or gas, wear personal protection equipment.

6.2. Environmental precautions

Cover any spilled material in accordance with regulation to prevent dispersal by wind. Observe local/state/federal regulation. Dispose of in prescribed marked containers. Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal. Dispose of according to local/state/federal regulation.

6.4. Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.2.

Precaution against fire and explosion

Fine dust may form explosive mixture with air. Avoid dust dispose, remove dust regularly. Take precautionary measures against Dust explosion.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep pallets and/or carton boxes tightly closed in a dry and well-ventilated place. Pallets and/or carton boxes which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature at +4° to +8° C (+39° to +46°F). Protect against light.

7.3. Specific end uses

Refer to 1.2

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.2. Exposure Controls/Exposure in the workplace

8.2.1. General Protection and hygiene practice.

Do not breathe dust. Avoid contact with eyes and skin. Do not eat, drink or smoke when handling. Observe standard industrial hygiene practices for the handling of chemical substances.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respirator must be worn if exposed to dust. Recommended filter type: Combined filter type A-P2 (certain organic gases and vapors with boiling point > 65°C; particles), according to acknowledged standards such as EN 14387.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Yellow to honey color liquid
Odor:	Odorless
Mean Particle size:	No data available
pH (0.5M solution in water):	3.0 - 4.5
Melting point/Freezing point:	54° C (data on hydroxytyrosol) / no freezing point data available
Initial boiling point and boiling range:	265° C (data on hydroxytyrosol)
Flash point:	Not flammable
Evaporation rate:	No data available
Flammability (solid, gas):	Not flammable (liquid)
Upper/lower flammability or explosive limits:	Not relevant - non-flammable liquid
Vapor pressure:	5.07E-006 mm Hg @ 25°C (estimated with EPI suite for hydroxytyrosol)
Vapor density:	No data available
Relative density:	1.15
Water solubility:	Miscible with water in any proportion
Partition coefficient, n-octanol/water:	No data available
Autoignition temperature:	Not self-igniting
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	Non explosive (estimation based on properties of product constituents)

9.2. Other information

10. STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No special activity has been reported.

10.4. Conditions to avoid

Protect from oxidizing agents, prolonged exposure from direct sunlight and/or overheating.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Other decomposition products - no data available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Acute toxicity (oral estimate).

LD 50 Oral (rat) <2,000 mg/kg bw/day.

11.1.2. Skin corrosion / irritation

Substance is noncorrosive (OECD 435, "in vitro" membrane Barrier test). Substance can cause skin irritation.

11.1.3. Serious eye damage / eye irritation

H319 - Causes serious eye irritation.

11.1.4. Respiratory or skin sensitization

The product does not cause skin sensitization (OECD 422D and OECD 442E). No data available on respiratory sensitization.

11.1.5 Germ Cell mutagenicity

"In vitro" - Ame's test (bacteria): negative.

"In vitro" - Chromosomal aberration test (human lymphocytes): negative.

"In vivo" - Chromosomal aberration test (rat bone marrow): negative.

11.1.6 Carcinogenicity

No experimental data available

11.1.7 Reproductive toxicity

No experimental data available.

11.1.8 STOT-single exposure

No experimental data available.

11.1.9 STOT-repeated exposure

NOAEL oral (rat, 90 days) = 250 mg/kg bw/day, no STOT effect observed.

11.1.10 Aspiration hazard

No experimental data available.

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12. ECOLOGICAL INFORMATION

Toxicity:	EC50 algae (Pseudokirchneriella subcapitata) = 18.5 mg/L
Persistence and degradability:	Readily biodegradable (Estimated with EPISuite)
Bioaccumulative potential:	Log Pow = 0.338 Non bioaccumulative
Mobility in soil:	Log Koc = 1.888 [estimated with EPISuite] It's not expected to be mobile in soil.
Results of PBT and vPvB assessment:	Product constituents do not meet the criteria for PBT or vPvB classification according to Annex XIII of Regulation (EC) 1907/2006 (REACH).
Other adverse effects:	No data available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product:	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

UN number:	ADR/RID - IMDG - IATA -ADR/ RID. Not dangerous goods
UN proper shipping name:	IMDG. Not dangerous goods IATA. Not dangerous goods
Transport hazard class(es):	ADR/RID - IMDG - IATA - ADR/ RID - IMDG - IATA - ADR/RID
Packaging group:	RID - IMDG - IATA - ADR/RID
Environmental hazards:	No IMDG marine pollutant: no IATA data available
Special precautions for user:	No data available

15. REGULATORY INFORMATION

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

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

Substances of very high concern (SVHC) (REACH, article 59): None.
Substances subjected to Authorisation (REACH, Annex XIV): None.
Substances subjected to Restriction (REACH, Annex XVII): None.
Limitations applicable under the provisions of Directive 2012/18/EU (SEVESO III): None.

15.2. Chemical safety assessment

A chemical safety assessment is not required for the product.

16. OTHER INFORMATION

Further information

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

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