

hw-Odinex

Date of issue: 25. June 2015
Date of last revision: 08. March 2023

**Section 1
Product description**

Product name: hw-Odinex

Product no.: 011051.00; 011052.00; 011053.00; 011054.00

Packing sizes: Various (250 ml; 500 ml; 1.000 ml; 5 L; 25 L)

Use of substance: Aquarium water supplement. For disinfection propose in synthetic or reconstituted marine water.

Chemical name: N/A
Formula: N/A
CAS Number: N/A
UN-Number: N/A

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**Section 2
Hazards identification**

Emergency overview: Under normal use no hazardous

Potential health effects:

Eyes:	May cause irritation
Skin:	May cause irritations to skin
Ingestion:	May cause gastrointestinal discomfort
Inhalation:	May cause irritation to respiratory tract

Section 3
Composition/information on ingredients

Mixture:

Substance name	Identification	%	*Classification GHS
copper sulfate pentahydrate	CAS-Nr.: 7758-99-8	0,1 - ≤ 2,5%	Aquatic Chronic 1, H410 Acute Tox. 4, H302; Skin Irrit. 2, H315
Vanadylsulfat Pentahydrat	CAS-Nr.: 12439-96-2	0,01 - ≤ 0,02%	Toxic if swallowed; H302

*See section 16 for full test of the H-statements

There are no other components/ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

Section 4
First aid measures

Emergency and First Aid Procedures:

- Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Skin:** After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
- Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious) and seek medical advice.
- Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Most important symptoms and effects, both acute and delayed:

See section XX (Toxicological information) for the most important known symptoms and effects.

Indication of any immediate medical attention and special treatment needed:

Not available

Section 5
Firefighting Procedures

- Flash Point (Method Used): N/A
- NFPA Rating: Health: 1
Fire: 0
Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire such as, dry chemical powder, chemical foam, water spray and carbon dioxide.

Flammable Limits in
Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion
Hazards: None Known

Section 6
Spill or leak procedures /Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid inhalation of dusts or aerosols.
Ensure adequate ventilation.
Ventilate area of spill.

Environmental precautions:

Prevent entry into waterways, sewers, basements or confined areas.

Methods and materials for containment and cleaning up:

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

Section 7
Handling and storage

Precautions for safe handling:

Avoid direct contact with skin and eyes. Avoid inhalation of dusts or aerosols. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Storage: Keep only in original container.
Avoid large temperature changes and store in a cool, dry, area and away from direct sunlight.
Keep containers closed when not in use. Store at 15°C-25°C.

Section 8
Exposure control / Protection information

Control parameters

Occupational exposure limits: N/A

Exposure controls

Engineering measures: Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person protective measures

Respiratory protection: Disposable particulate mask.
Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure.

Eye protection: Splash proof chemical safety goggles should be worn.

Skin protection: Laboratory coat. Wear appropriate long-sleeved clothing to minimize skin contact.

During normal and non-professional/long time exposure use of the productt no personal protective equipment is required. However, in case of manufacture or spillage, use as appropriate to the size of the spill.

Environmental exposure controls

Not available

Section 9
Physical Data

Odor: none	Odor threshold: N/A
pH: N/A	Melting point/Freezing point: N/A
Initial boiling point/boiling range: N/A	Flash point: N/A
Evaporation rate: N/A	Flammability: non-combustible
Upper/lower flammability or explosive limits: N/A	Vapor pressure: N/A

Vapor density: N/A
 Solubility(ies): soluble in water
 Auto-ignition temperature: N/A
 Viscosity: N/A
 Oxidizing properties: N/A

Relative Density: N/A
 Partition coefficient Octanol/Water: N/A
 Decomposition temperature: N/A
 Explosive properties: N/A

Section 10
Stability and Reactivity Data

Reactivity: N/A
Chemical stability: Stable
Conditions to Avoid: None Known
Incompatibility (Materials to Avoid): N/A
Hazardous Decomposition Products: N/A

Section 11
Toxicological information

Toxicity data:

Skin corrosion/irritation:	Not available
Serious eye damage/irritation:	Not available
Respiratory or skin sensitization:	Not available
Germ cell mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available.
Specific target organ toxicity (single exposure):	Not available
Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available

Section 12
Ecological data & information

Toxicity:	Not available
Persistence and degradability:	Not available
Bio-accumulative potential:	Not available
Mobility in soil:	Not available
Carcinogenicity:	Not available
Results of PBT and vPvB assessment:	Not available.
Other adverse effects:	Not available

**Section 13
Disposal information**

Waste treatment:

Product: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing material: Empty containers, boxes, bags, etc. should be taken for local recycling, recovery or waste disposal.

**Section 14
Transport information**

UN number:

ADR/RID: - IMDG: - IATA: - DOT (US): -

UN proper shipping name

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

DOT (US): Not regulated

Transport hazard class(es):

ADR/RID: - IMDG: - IATA: - DOT (US): -

Packing group:

ADR/RID: - IMDG: - IATA: - DOT (US): -

Environmental hazard:

ADR/RID: - IMDG: - IATA: - DOT (US): -

Special precautions for consumer/user: Not available

Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

**Section 15
Regulatory information**

This MSDS complies with the following requirements of:

EU Directives 67/548/EEC (DSD) and 1999/45/EC (DPD), including amendments
EU Regulation (EC) No.1907/2006 (REACH) including amendments
Regulation (EC) No.1272/2008 (CLP)
29 CFR 1910.1200 (OSHA HCS)

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

TSCA inventory: The components of the product are included on or exempted from the TSCA inventory.

Chemical safety assessment: Not available

**Section 16
Additional & other information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Wiegandt GmbH makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

NFPA Rating: Health hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0

Full text of Hazards Statements referred to in sections 2 and 3:
Non available

Key Legend Information & Glossary:

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Service
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
CSA: Chemical safety assessment
H-statements: Hazard statements
IARC: International Agency for Research on Cancer
N/A: Not available
NTP: National Toxicology program
OSHA: Occupational Safety and Health Administration
R-phrases: Risk phrases
STEL: Short-Term Exposure Limit
TLV: Threshold Limit Value
TWA: Time-weighted average