

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

Revision: 17.07.2023

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

1.1 Product Identifier:**Trade name:** pHive.8 OSA**1.2 Relevant identified uses of the substance or mixture and uses advised against:****Product category:** Liquid fertiliser**Application of the substance / the mixture:** Professional and consumer use.**1.3 Details of the supplier of the safety data sheet:****Manufacturer / Importer / Supplier:**

pHive.8 Distribution
 1890 E 58th Ave.
 Denver, CO 80216
 United States of America
 720 - 502 - 4936

Further information obtainable from: Product safety department.**1.4 Emergency telephone number:****USA:** 720 - 502 - 4936 or your national emergency number.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:**Classification according to Regulation (EC) No 1272/2008:**

corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements:**Labelling according to Regulation (EC) No 1272/2008:** The product is classified and labelled according to the CLP regulation.**Hazard pictograms:** GHS05**Signal word:** Danger**Hazard statements:**

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P102 Keep out of reach of children.

P280 Wear protective gloves / face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:**Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:**

Mixture of non-hazardous components or the concentration of the components is lower than the classification values.

Components: Void**Additional information:** For the wording of the listed hazard phrases See section 16.

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

Revision: 17.07.2023

Trade name: pHive.8 OSA

(Contd. of page 1)

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information:

Immediately remove any clothing soiled by the product.

Take affected persons out of danger area and lay down.

Persons, providing assistance, should avoid exposure and danger for themselves or others.

After inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Seek medical treatment in case of complaints.

After skin contact:

Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).

If skin irritation continues, consult a doctor.

After eye contact:

If possible, remove contact lenses.

Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

After ingestion:

In case of ingestion of large amounts, medical advice is required.

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

CO₂, powder, foam or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture: During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters:

Protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Additional information: Cool endangered tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Avoid breathing vapor and contact with eyes, skin and clothing.

Ensure adequate ventilation

6.2 Environmental precautions:

Shut off leaks, if possible without risk.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

(Contd. on page 3)

-GB-

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

Revision: 17.07.2023

Trade name: **pHive.8 OSA**

(Contd. of page 2)

Avoid inhalation of vapors and contact with eyes, skin and clothing.

Wash hands thoroughly with water after handling.

Do not eat, drink or smoke while working.

Information about fire and explosion protection: Observe the general rules for fire prevention.**7.2 Conditions for safe storage, including any incompatibilities:****Storage:****Requirements to be met by storerooms and tanks:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Store dry and in closed packaging.**7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs**7647-01-0 Hydrochloric acid**

Inhalative	Acute - local effects	15 mg/m ³ (Worker)
	Long-term - local effects	8 mg/m ³ (Worker)

PNECs**7647-01-0 Hydrochloric acid**

Fresh water	0.036 mg/l
Marine water	0.036 mg/l
Intermittent releases	0.045 mg/l
Soil	0.036 mg/kg
Sewage treatment	0.036 mg/l

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Appropriate engineering controls** No further data; see section 7.**Technical measures:** No special measures necessary.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.**Hand protection**

Protective gloves

Use protective gloves to EN ISO 374-1

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Gloves made of Nitrile rubber, NBR

Recommended thickness of the material: $\geq >0.35$ mm**Penetration time of glove material:**Value for the permeation: Level $\leq >480$

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

Revision: 17.07.2023

Trade name: **pHive.8 OSA****Eye/face protection**

(Contd. of page 3)



Tightly sealed goggles

Use safety glasses that meets the requirements of EN 166; latest versions.

Body protection: Protective work clothing**Environmental exposure controls** Prevent spills from reaching surface waters or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:**General Information:**

Physical state	Fluid
Colour:	Colorless
Odour:	Odourless.
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Product is not self-igniting.
Decomposition temperature:	Not determined.
pH at 20 °C	0.8
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
Water:	Fully miscible.
Refraction Index:	
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density at 20 °C:	1.1
Vapour density:	Not determined.

9.2 Other information:**Appearance:****Form:** Liquid.**Important information on protection of health and environment, and on safety.**

Ignition temperature:	Not determined
Explosive properties:	Product does not present an explosion hazard.
Oxidizing properties:	Does not contain oxidizing properties.
Congeaing Point	
Evaporation rate:	Not determined.

Information with regard to physical hazard classes

Explosives	Void
	Void
Flammable gases	Void
	Void
Aerosols	Void
	Void
Oxidising gases	Void
	Void

(Contd. on page 5)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

Revision: 17.07.2023

Trade name: pHive.8 OSA

(Contd. of page 4)

Gases under pressure	Void
	Void
Flammable liquids	Void
	Void
Flammable solids	Void
	Void
Self-reactive substances and mixtures	Void
	Void
Pyrophoric liquids	Void
	Void
Pyrophoric solids	Void
	Void
Self-heating substances and mixtures	Void
	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
	Void
Oxidising liquids	Void
	Void
Oxidising solids	Void
	Void
Organic peroxides	Void
	Void
Corrosive to metals	Void
	Void
Desensitised explosives	Void
	Void

SECTION 10: Stability and reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Boron compounds

Irritant gases/vapours

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

LD/LC50 values relevant for classification:

7647-01-0 Hydrochloric acid

Inhalative	LD50 /1h	8.3 mg/l (Rat)
------------	----------	----------------

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

GB
(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

Revision: 17.07.2023

Trade name: **pHive.8 OSA**

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. of page 6)

SECTION 16: Other information

Training hints: Take care of good information, instruction and training for users.

Abbreviations and acronyms:

ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation Intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (Division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 EC50: Effective Concentration, 50 percent
 IOELVS: Indicative Occupational Exposure Limit Values
 mPa.s: milliPascal per second
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1

References:

This information is based on the current available data (suppliers of raw materials, chemistry maps, Annex VI)
 See also the internet site: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Disclaimer:

The information provided in this Material Safety Data Sheet has been prepared with the utmost care and corresponds to the most recent information available to the supplier on the date of publication mentioned in the header of every page. The contents of this Material Safety Data Sheet should not be considered as a guarantee for certain product properties or fitness for particular purposes. It is the obligation of the user to determine whether the product is suitable for the specific purpose, intended use and the method of application. This Safety Data Sheet only relates to the product described and does not apply to any not defined use or the use of the product in combination with other materials, substances or products. It is the responsibility of the user to use and handle the product with care and to comply with all applicable laws and regulations. The supplier accepts no liability for direct or indirect damages resulting from improper use of this Material Safety Data Sheet and / or the products described therein.

GB