

Safety Data Sheet

H-Pro 20 Liquid



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

1.1. Product identifier

Trade name: H-Pro 20 Liquid

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

Recommended uses: Plant nutrition.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: CHS Inc
Address: 5500 Cenex Drive
Inver Grove Heights, MN 55077
Country: UNITED STATES OF AMERICA
Phone: 651-355-6000
Website: www.chsinc.com

1.4. Emergency Telephone Number

+1(650) 355-6000 (Emergency phone)
+1(800)424-9300 (CHEMTREC 24h phone number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

HazCom classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

HazCom classification - other information: The product does not have to be classified.

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	Concentration	Notes
Water	7732-18-5	~ 80%	
Humic acid, potassium salt	68514-28-3	~ 20%	

Ingredient comments: Humic acids, potassium salt (EC number 271-030-1, CAS number 68514-28-3) REACH registration number: 01-2119484861-29-0035. Tonnage band: 10-100 tpa.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air, wash out mouth with water and blow nose thoroughly.

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Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.

Skin contact: Wash the skin with water. Remove contaminated clothing.

Eye contact: Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

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

None known.

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

None.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Not applicable.

Unsuitable extinguishing media: Not applicable.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for fire-fighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

Avoid unnecessary release to the environment. Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Sweep up/collect spills for possible reuse or transfer to suitable waste containers.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special requirements. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in an area with secondary containment.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements

8.2. Exposure controls

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Appropriate engineering controls: Provide sufficient ventilation during operations which cause vapour formation.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash.

Personal protective equipment, skin protection: Wear suitable protective clothing.

Personal protective equipment, hand protection: Wear gloves.

Personal protective equipment, respiratory protection: Not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Brown
Odour	Mild
Solubility	Water soluble.
Explosive properties	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	9	
pH (concentrate)		Not applicable.
Melting point	°C	Not applicable.
Freezing point	-2 °C	
Initial boiling point and boiling range	104 °C	
Flash Point	°C	Not applicable.
Evaporation rate	0.4	Water.
Flammability (solid, gas)		Not applicable.
Flammability limits		Not applicable.
Explosion limits	vol%	Not applicable.
Vapour pressure	14.2 mmHg	20 °C
Vapour density		20 °C
Relative density	1.138	Specific gravity.
Partition coefficient n-octanol/water		100% Water.
Auto-ignition temperature	°C	Not applicable.
Decomposition temperature	°C	Not applicable.
Viscosity	< 100 cSt	
Odour threshold	ppm	Not applicable.

9.2 Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable.

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10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Humic acid, potassium salt, cas-no 68514-28-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000mg/kg		EU Method B.1 tris	REACH dossier

Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation: May cause slight irritation.

Serious eye damage/eye irritation: May cause slight irritation.

Respiratory sensitisation or skin sensitisation: None known.

Germ cell mutagenicity: Based on existing data, the classification criteria are deemed not to have been met.

Carcinogenic properties: The product does not have to be classified.

SECTION 12: Ecological information

12.1. Toxicity

Humic acid, potassium salt, cas-no 68514-28-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae		72 h	EC50	87 - 100mg/l			REACH dossier
Fish		96 h	LC50	128mg/l			REACH dossier

12.2. Persistence and degradability

Potentially degradable.

12.3. Bioaccumulative potential

No bioaccumulation expected.

12.4. Mobility in soil

Solubility in water: Completely miscible

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12.5. Results of PBT and vPvB assessment

None known.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with Local Authority requirements.

SECTION 14: Transport information

14.1. UN-No.:	Not applicable.	14.4. Packing group:	Not applicable.
14.2. UN proper shipping name:	Not applicable.	14.5. Environmental hazards:	Not applicable.
14.3. Transport hazard class(es):	Not applicable.		

14.6. Special precautions for user

None.

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

Special Provisions: ADR/RID (2017), GHS / CLP (EC NO1272/2008) GHS USA June, 2015.

Authorisations / limitations: Global inventory status:

NFPA ratings

Health hazard:	0
Flammability:	0
Instability:	0

15.2. Chemical Safety Assessment

Other Information: The product does not have to be classified.

SECTION 16: Other information

Vendor notes: Information given in this safety data sheet is in accordance with our information, and to the best of our knowledge, was correct on the last revision date. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

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