

# SAFETY DATA SHEET Hydro B

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

#### **Product identifier**

Product name Hydro B appearance Liquid.

**Product number** hydro b 1-3-5 v01.1.0

Internal identification A31744

Container size 100 mL - 20 L

0.0264 gal - 5.28 gal

#### Recommended use of the chemical and restrictions on use

**Application** Fertilizer

**Uses advised against** Use only for intended applications.

## Details of the supplier of the safety data sheet

**Supplier** Bertels B.V.

## Emergency telephone number

**Emergency telephone** +31 (0)6 51 66 52 10 +31 (0)6 27 84 19 52

## 2. Hazard(s) identification

#### Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

**Precautionary statements** P102 Keep out of reach of children.

# Other hazards

This product does not contain any substances classified as PBT or vPvB.

## 3. Composition/information on ingredients

#### **Mixtures**

levels of disclosure.

## 4. First-aid measures

#### Description of first aid measures

General information If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical

personnel.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms

are severe or persist.

Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not

induce vomiting unless under the direction of medical personnel.

Skin Contact Rinse with water.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical

attention if any discomfort continues.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

## Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

**Skin contact** No specific symptoms known.

Eye contact No specific symptoms known. May be slightly irritating to eyes.

#### Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

## 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry

powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Harmful gases or vapors.

## Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use

water spray to disperse vapors and protect men stopping the leak.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

#### 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.

Spilled IIIe

Environmental precautions
Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

## Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills

immediately and dispose of waste safely. If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For

waste disposal, see Section 13.

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards. See Section 12 for additional information on ecological hazards. For waste disposal,

see Section 13.

## 7. Handling and storage

#### Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in

Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed

when not in use. Avoid the formation of mists.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash

before reuse. Wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 0°C/32°F and 35°C/95°F. Store in tightly-closed, original

container. Protect from freezing and direct sunlight. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep containers upright. Protect containers

from damage. Store away from incompatible materials (see Section 10).

Storage class Unspecified storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

## 8. Exposure controls/Personal protection

## **Exposure controls**

Appropriate engineering

controls

Provide adequate ventilation.

Eye/face protection Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard

should be worn if a risk assessment indicates eye contact is possible.

**Hand protection** No specific hand protection recommended.

**Hygiene measures**Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Respiratory protection No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is

inadequate, suitable respiratory protection must be worn.

Environmental exposure

controls

Keep container tightly sealed when not in use. Avoid release to the environment.

#### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance Clear liquid.

Color Yellow.

Odor Odorless.

Odor threshold No information available.

pH (concentrated solution): 2,6 - 3,2

Melting pointNo information available.Initial boiling point and rangeNo information available.

Flash point No information available.

**Evaporation rate** No information available.

Flammability (solid, gas) No information available.

Upper/lower flammability or

explosive limits

No information available.

Vapor pressureNo information available.

Vapor density No information available.

**Relative density** 1,13 - 1,17 g/ml

**Solubility(ies)** Completely soluble in water.

Partition coefficient

No information available.

Auto-ignition temperature

No information available.

No information available.

Viscosity

No information available.

Explosive properties Not applicable.

Oxidizing properties Not applicable.

## 10. Stability and reactivity

**Reactivity** See the other subsections of this section for further details.

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

Possibility of hazardous

reactions

No potentially hazardous reactions known.

**Conditions to avoid**There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

#### 11. Toxicological information

## Information on toxicological effects

Acute toxicity - oral

Notes (oral LD50) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitization

**Respiratory sensitization** Based on available data the classification criteria are not met.

Skin sensitization

**Skin sensitization** Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity**None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

5/9

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

**Skin Contact** No specific symptoms known.

Eye contact No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

**Target Organs** No specific target organs known.

12. Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have

hazardous effects on the environment.

**Toxicity** Based on available data the classification criteria are not met.

Persistence and degradability

Persistence and degradability The product is biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Mobility in soil

**Mobility** The product is water-soluble and may spread in water systems. The product is non-volatile.

Other adverse effects

Other adverse effects None known.

## 13. Disposal considerations

#### Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle

products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product

residues and hence be potentially hazardous.

Disposal methods Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with

the requirements of the local Waste Disposal Authority.

# 14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, DOT).

**UN Number** 

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name

Not applicable.

(International)

## Transport hazard class(es)

#### Transport labels

No transport warning sign required.

#### **DOT transport labels**

No transport warning sign required.

#### Packing group

Packing group (International) Not applicable.

## **Environmental hazards**

## **Environmentally Hazardous Substance**

No.

## Special precautions for user

Not applicable.

**DOT TIH Zone** Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## 15. Regulatory information

## **US Federal Regulations**

## SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

## CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed or exempt:

phosphoric acid

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

## SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

## SARA 313 Emission Reporting

The following ingredients are listed or exempt:

potassium nitrate

1.0 %

Librel Cu disodium-[[N,N'\_ethylebis[N\_(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cupraat(2-)

1.0 %

## **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

#### FDA - Essential Chemical

None of the ingredients are listed or exempt.

# FDA - Precursor Chemical

None of the ingredients are listed or exempt.

#### SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

## **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

#### **US State Regulations**

#### California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed or exempt.

## California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

phosphoric acid

#### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

#### California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

phosphoric acid

## Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

potassium nitrate

disodium tetraborate decahydrate

phosphoric acid

## Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

potassium nitrate

disodium tetraborate decahydrate

phosphoric acid

## Minnesota "Right To Know" List

The following ingredients are listed or exempt:

disodium tetraborate decahydrate

phosphoric acid

# New Jersey "Right To Know" List

The following ingredients are listed or exempt:

potassium nitrate

phosphoric acid

## Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

potassium nitrate

disodium tetraborate decahydrate

phosphoric acid

## Inventories

#### **US-TSCA**

The following ingredients are listed or exempt:

potassium nitrate

Librel Cu disodium-[[N,N'\_ethylebis[N\_(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cupraat(2-)

disodium tetraborate decahydrate

bronopol (INN)

phosphoric acid

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

## 16. Other information

# Abbreviations and acronyms used in the safety data sheet

TDG: The transport of dangerous goods act

IATA: International air transport association.

ICAO: Technical instructions for the safe transport of dangerous goods by air.

IMDG: International maritime dangerous goods.

CAS: Chemical abstracts service. ATE: Acute toxicity estimate.

LC<sub>50</sub>: Lethal concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).

EC₅: 50% of maximal effective concentration.

PBT: Persistent, bioaccumulative and toxic substance. vPvB: Very persistent and very bioaccumulative.

**Training advice** Read and follow manufacturer's recommendations.

**Revision comments** This is the first issue.

**Revision** v01.1.0 **SDS No.** 4697

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