Nuvelis Aegira

According to Regulation (EC) No 1907/2006, Article 31
Printing date 06.06.2025
Version number 1 (replaces version 0)
Revision: 06.06.2025

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

1.1 Product Identifier:

Trade name: Aegira

UFI: F910-D004-800F-M4KC
1.2 Relevant identified uses of the substance or mixture and uses advised against:
Product category: PC0 Other
Application of the substance / the mixture: Professional use only
1.3 Details of the supplier of the safety data sheet:
Manufacturer / Importer / Supplier:
Cindro Bereiding B.V.
Transportweg 1
1619 BG Andijk
Nederland
Tel.: +31 6 4914 9965
Email: t.verburg@cindro.nl
www.cindro.nl
Further information obtainable from: Product safety department.
1.4 Emergency telephone number:
NL- National Vergiftigingen Informatie Centrum (NVIC). Tel nr.: +31 30 274 8888 (Only available to a treating physician in case of accidental poisoning. Only for professional rescuers)
+31 6 4914 9965 This telephone number can be reached during office hours.

SECTION 2: Hazards identification

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

GHS08 health hazard
Repr. 1B H360FD May damage fertility. May damage the unborn child.

GHS05 corrosion
Eye Dam. 1 H318 Causes serious eye damage.

GHS09 environment
Aquatic Acute 1 H400 Very toxic to aquatic life.

GHS07
Skin Irrit. 2 H315 Causes skin irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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, GHS08, GHS09
Signal word: Danger

Hazard-determining components of labelling:
Copper(II) chloride dihydrate
boric acid
Tetrahydroxysilane
zinc chloride
Hazard statements:
H315 Causes skin irritation.
H318 Causes serious eye damage.

H360FD May damage fertility. May damage the unborn child.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements:
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264+P265 Wash hands thoroughly after handling. Do not touch eyes.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional information:
Restricted to professional users.
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 substances specified below, possibly with non-hazardous additions or with components whose concentration is lower than the classification values..

Components:		
CAS: 10125-13-0 EINECS: 231-210-2	Copper(II) chloride dihydrate Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315	2.5-5%
CAS: 10043-35-3 EINECS: 233-139-2 Index number: 005-007-00-2 Reg.nr.: 01-2119486683-25	boric acid Repr. 1B, H360FD; Acute Tox. 4, H332	2.5-5%
CAS: 10193-36-9 EINECS: 233-477-0	Tetrahydroxysilane Skin Corr. 1A, H314	≤2.5%
CAS: 7646-85-7 EINECS: 231-592-0 Index number: 030-003-00-2	zinc chloride Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302 Specific concentration limit: STOT SE 3; H335: C ≥ 5 %	≤2.5%

SVHC:	
10043-35-3	boric acid

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

SECTION 4: First aid measures

4.1 Description of first aid measures:
General information: Take affected persons out of danger area and lay down.
After inhalation:
Remove the victim to fresh air and keep him/her at rest in a position that facilitates breathing.
In case of unconsciousness place patient stably in side position for transportation.
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 (>15) under running water. Then consult a doctor.
Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.
After ingestion:
DO NOT INDUCE VOMITING!
Rinse out mouth and then drink plenty of water.

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: Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents:
For this substance / mixture there are no limitations of extinguishing agents.
5.2 Special hazards arising from the substance or mixture: No further relevant information available.
5.3 Advice for firefighters:
Protective equipment:
No special measures required.
Wear self-contained respiratory protective device.
Additional information: Cool endangered tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Avoid breathing vapor and contact with eyes, skin and clothing.
Ensure adequate ventilation
Avoid exposure of (pregnant) women.
Use according to good industrial hygiene and safety procedures.
Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Remainder dilute with plenty of water.
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).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
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:
Use according to good industrial hygiene and safety procedures.
Avoid inhalation of vapors and contact with eyes, skin and clothing.
Avoid exposure of (pregnant) women!
Store in cool, dry place in tightly closed receptacles.
Wear appropriate personal protective equipment. (See section 8)
Information about fire and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:
All hazardous products are to be placed on a drip tray.
Storage must comply with the local regulations.
Storage:
Requirements to be met by storerooms and tanks:
Do not use light alloy receptacles.
Store only in the original receptacle.
Information about storage in one common storage facility: Not required.
Further information about storage conditions:
Protect from frost.
Keep container tightly sealed.

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		
10043-35-3 boric acid		
Oral	Long-term - systemic effects	0.98 mg/kg bw/day (Consumer)
Dermal	Long-term - systemic effects	196 mg/kg bw/day (Consumer)
		392 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects	4.15 mg/m3 (Consumer)
		8.3 mg/m3 (Worker)
7647-01-0 Hydrochloric acid		
Inhalative	Acute - local effects	15 mg/m3 (Worker)
	Long-term - local effects	8 mg/m3 (Worker)

PNECs	
10043-35-3 boric acid	
Fresh water	2.02 mg/l
Marine water	2.02 mg/l
Intermittent releases	13.7 mg/l
STP	10 mg/l
Soil	5.4 mg/kg
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.
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 skin.
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:
Recommended thickness of the material: .35 mm
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

Penetration time of glove material:
Value for the permeation: Level 120
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection

Tightly sealed goggles

Use safety glasses that meets the requirements of EN 166; latest versions.
Body protection: Protective work clothing
Environmental exposure controls Prevent spillages from entering surface water or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:	
Physical state	Liquid
Colour:	Dark brown
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point:	Not determined.
Boiling point or initial boiling point and boiling range	100 °C (7732-18-5 Water, distilled, conductivity or of similar purity)
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined.
pH at 20 °C	3-5
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 at 20 °C:	23 hPa (7732-18-5 Water, distilled, conductivity or of similar purity)
Density and/or relative density	
Density at 20 °C:	1.1 g/cm³
Relative density:	Not determined.
Vapour density:	Not determined.

9.2 Other information:

Appearance:	
Form:	Liquid.
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Oxidizing properties:	Does not contain oxidizing properties.
Congealing Point	
Evaporation rate:	Not determined.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void

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

SECTION 10: Stability and reactivity

10.1 Reactivity: Reacts violently with bases.
10.2 Chemical stability:
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions: Reacts with alkali (lyes).
10.4 Conditions to avoid: No further relevant information available.
10.5 Incompatible materials: Alkali
10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	11,490 mg/kg
Dermal	LD10	41,045 mg/kg

10125-13-0 Copper(II) chloride dihydrate		
Oral	LD50	500 mg/kg (ATE)
Dermal	LD10	1,100 mg/kg (ATE)
10043-35-3 boric acid		
Oral	LD50	2,660 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	2 mg/l (Rat)
7646-85-7 zinc chloride		
Oral	LD50	350 mg/kg (Rat)
7647-01-0 Hydrochloric acid		
Inhalative	LD50 /1h	8.3 mg/l (Rat)

Primary irritant effect:
Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reprotoxicity: May damage fertility. May damage the unborn child.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

Additional toxicological information:

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity:	
10043-35-3 boric acid	
LC50/48h	133 mg/l (Daphnia Magna)
EC10 / 96h	24 mg/l (Algae)
EC50 / 3h	175 mg B/l (Bateria)
LC50/96h	74 mg/l (Fish)
7647-01-0 Hydrochloric acid	
LC50/96h	20.5 mg/l /pH 3.25-3. (Lepomis macrochirus)
EC50/48h	0.45 mg/l /pH4.9 (Daphnia Magna)
EC50/72h	0.73 mg/l /pH 4.7 (Algae)

12.2 Persistence and degradability: No further relevant information available.
12.3 Bioaccumulative potential: No further relevant information available.
12.4 Mobility in soil: No further relevant information available.
12.5 Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects:
Remark:
Very toxic for fish
Harmful to fish
Additional ecological information:
General notes:
Very toxic for aquatic organisms
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:
Recommendation:
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Waste material must be disposed of in accordance with the waste directive 2008/98 / EC and other national and local laws and regulations.

Contaminated packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number
DOT, ADR/RID/ADN, IMDG, IATA Void
14.2 UN proper shipping name:
ADR/RID/ADN, IMDG, IATA Void

14.3 Transport hazard class(es):

DOT, ADR/RID/ADN, IMDG, IATA	
Class	Void
14.4 Packing group:	
DOT, ADR/RID/ADN, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user:	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

Transport/Additional information:

ADR/RID/ADN:	
Remarks:	> 5 l: 9

IATA:	
Remarks:	> 5 l: Class 9
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Section 355 (extremely hazardous substances):
None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):	
7646-85-7	zinc chloride

Proposition 65

Chemicals known to cause cancer:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Cancerogenity categories

EPA (Environmental Protection Agency)		
10043-35-3	boric acid	I (oral)
7646-85-7	zinc chloride	D, I, II

TLV (Threshold Limit Value)		
10043-35-3	boric acid	A4

NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

Directive 2012/18/EU:
Named dangerous substances - ANNEX I: None of the ingredients are listed.
Seveso category: E1 Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) for the application of lower-tier requirements: 100 t
Qualifying quantity (tonnes) for the application of upper-tier requirements: 200 t
REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3, 30

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

(Contd. on page 9)

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors		
7647-01-0	Hydrochloric acid	3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors		
7647-01-0	Hydrochloric acid	3

National regulations: Not applicable

Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

Other regulations, limitations and prohibitive regulations:

Substances of very high concern (SVHC) according to REACH, Article 57:	
10043-35-3	boric acid

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

SECTION 16: Other information

Relevant phrases:
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H360FD May damage fertility. May damage the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
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
DOT: US Department of Transportation
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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
EC50: Effective Concentration, 50 percent
IOELVS: Indicative Occupational Exposure Limit Values
mPa.s: milliPascal per second
ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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.