

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH) and the ammendment Regulation (EC) No. 2015/830 EU

EU_EN

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Revision 3.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name **BabyBio™ NiMAC**
Article number 45 655 311, 45 655 312, 45 655 313, 45 655 314, 45 655 315, 45 655 316,
45 655 317, 45 655 318
Product description Agarose-based resin for chromatography.

1.2 Relevant identified uses of the substance or mixture and uses advised against
For research and process chromatography.

1.3 Manufacturer/Supplier of Safety Data Sheet

Bio-Works Sweden AB
Virdings allé 18
SE-754 50 Uppsala, Sweden
Phone: +46 8 5626 7430
E-Mail: info@bio-works.com

1.4 Emergency telephone number
+46 8 5626 7430 (Bio-Works Sweden AB)

National advisory body/Poison centre
Please contact the local Poison centre in your country.

SECTION 2: HAZARDS IDENTIFICATION

Hazardous components
Ethanol and nickel compounds

Prevention

Wear protective gloves, eye or face protection. Keep away from heat, sparks and flames, and hot surfaces. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

2.1 Classification of the substance or mixture

Product definition

Mixture

Classification according to Regulation(EC) No. 1272/2008 [CLP/GHS]

Flammable. Liquid Category 3

Carcinogenic 1A

Aquatic Acute 1

Aquatic Chronic 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

Ingredients of unknown toxicity

None, based on available information.

Ingredients of unknown ecotoxicity

None, based on available information.

2.2 Label elements

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351 Suspected of causing cancer.

Precautionary statements

General

No information available

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

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

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal

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

Hazardous ingredients

Contains 20% ethanol as preservative. Contains adsorbed nickel ions.

Supplemental label elements

May produce an allergic reaction.

2.3 Other hazards

None known

SECTION 3: COMPOSITION/INFO ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Contains cross-linked agarose beads with nickel (II) ions attached by chelation, and with 20% ethanol as preservative.

Product/Ingredient name	Identifiers	Content (%)	Classification according to Regulation (EC) No 1272/2008 (CLP) ²⁾	
			Hazard class and Category codes	Hazard statements
Ethanol	CAS: 64-17-5 REACH #: 01-2119457610-43 EC: 200-578-6 INDEX: 603-002-00-5	17-19	Flam. Liq. 2	H225
Nickel sulphate	CAS: 7786-81-4 REACH #: N/A EC: 232-104-9 INDEX: 028-009-00-5	< 0.5	Carc. 1A Repr. 1B Acute Tox. 3 Acute Tox. 3 STOT RE 1 Skin Irrit. 2 Resp. Sens. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H350i H341 H360D H331 H301 H372 H315 H334 H317 H400 H410

2) See List of abbreviations in section 16.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

No information available

Inhalation

Not expected to be a significant hazard under anticipated conditions of normal use. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Skin contact

Remove/Take off immediately all contaminated clothing and shoes. Rinse skin with water/shower. Consult doctor in case of complaints.

Eye contact

Remove contact lenses, if present and easily done. Rinse eyes with plenty of water for at least 10 minutes. Consult doctor if irritation occurs.

Ingestion

Not expected to be a significant hazard under anticipated conditions of normal use. Remove victim to fresh air. Rinse mouth with water. If the victim is conscious, give small quantities to drink. Do not give anything to drink or eat if the person is unconscious. Do not induce vomiting. Consult doctor for advice.

Self-protection of first aider

Wear personal protection equipment (PPE).

Notes to physician Treat symptomatically. Contact poison treatment specialist if large quantities have been ingested or inhaled.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Eye contact	No known significant effects or critical hazards.
Ingestion	Upon ingestion of large quantities: Dizziness, vomiting, narcosis, respiratory paralysis.

4.3 Indication of any immediate medical attention and special treatment needed

No information available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water, alcohol-resistant foam, dry powder/dry chemical or carbon dioxide (CO₂)

Unsuitable extinguishing media

Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products

In the event of fire may produce hazardous combustion gases or vapours, including carbon dioxide and carbon monoxide

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Wear self-contained breathing apparatus. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment according to Section 8.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid discharge into soil, waterways, drains and sewers.

6.3 Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Cover drains. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or place in container for disposal according to local regulations. Dispose of product and contaminated absorbent material according to local, regional, national or international regulations.

6.4 Reference to other sections

See SECTION 1 for emergency contact information
See SECTION 8 for personal protection information
See SECTION 13 for waste treatment information

SECTION 7: HANDLING AND STORAGE

Store and handling at 2 to 25°C. Small amounts can be flushed down a sink with a large quantity of water unless local rules prohibit this. The product is stable. Under normal conditions of storage and use hazardous polymerization will not occur. Avoid strong oxidizing agents.

7.1 Precautions for safe handling

Protective measures

Always wear recommended protective equipment, see SECTION 8. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers may retain product residue and can be hazardous. Do not reuse container. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Take precautionary measures against electrostatic discharges.

Advice on general occupational hygiene

Eating, drinking and smoking must be prohibited in areas where this material is handled, stored and processed. Users should wash hands before eating, drinking and smoking. Remove protective equipment and clothing, and contaminated clothing, before entering eating areas. See Section 8 for additional information.

7.2 Conditions for safe storage, including any incompatibilities

Store at 4 to 30°C (39 to 86°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct in a well-ventilated area. Do not store with incompatible materials (see Section 10) or food and drinks. Do not store close to ignition sources or hot surfaces. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Research sector

Recommended for laboratory use.

Industrial sector

Guidance not available.

SECTION 8: LIMIT EXPOSURE

Use gloves and eye protection. Use in ventilated environment.

8.1 Control parameters

Occupational exposure limits (OEL) - Inhalation

Geographical area	Ethanol CAS: 64-17-5	Nickel sulphate CAS: 7786-81-4
EU OEL (TWA)	None	None
EU OEL (STEL)	None	None
Austria	TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 0.05 mg/m ³
Belgium	TWA: 1000 ppm TWA: 1907 mg/m ³	TWA: 0.1 mg/m ³
Denmark	TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 0.01 mg/m ³
Finland	TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 0.1 mg/m ³

France	1000 ppm 1900 mg/m ³	TWA: 0.1 mg/m ³
Germany	500 ppm exposure factor 2 960 mg/m ³ exposure factor 2 DNEL: 1900 mg/m ³	TWA: 0.05 mg/m ³
Greece	TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 1 mg/ m ³
Ireland	STEL: 1000 ppm 15 min	TWA: 0.1 mg/m ³
Italy	TWA: 1000 ppm DNEL: 1900 mg/m ³	TWA: 0.1 mg/m ³
Lithuania	TWA: 1000 ppm DNEL: 1900 mg/m ³	TWA: 0.1 mg/m ³
Latvia	TWA: 1000 mg/m ³ DNEL: 1900 mg/m ³	TWA:
Luxembourg	None	TWA: 0.1 mg/m ³
Norway	500 ppm 950 mg/m ³	TWA: 0.05 mg/m ³
Netherlands	TWA/MAC: 500 ppm TWA/MAC: 1000 mg/m ³	TWA: 0.1 mg/m ³
Poland	TWA/DNEL: 1900 mg/m ³	TWA: 0.25 mg/m ³
Portugal	TWA: 1000 mg/m ³	TWA: 0.1 mg/m ³
Spain	None	TWA: 0.1 mg/m ³
Sweden	500 ppm LLV 1000 mg/m ³ LLV	LLV: 0.1 mg/m ³ LLV
Switzerland	STEL: 1000 ppm STEL: 1900 mg/m ³ TWA: 500 ppm TWA: 960 mg/m ³	Skin sensitizer 0.5 mg/m ³
United kingdom	WEL – STEL: 3000 ppm WEL – STEL: 5760 mg/m ³ TWA: 1920 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.	TWA: 0.1 mg/m ³
US NIOSH (REL/PEL)	TWA: 1000 ppm TWA: 1900 mg/m ³	PEL: 1 mg/m ³ REL: 0.1 mg/m ³
Canada		EV: 0.1 mg/m ³

Recommended monitoring procedure

Workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)

European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents)

Reference to national guidance documents may also be required.

DNELs/DMELs

Not applicable

PNECs

No information available

8.2 Exposure controls

Appropriate engineering controls

Use adequate ventilation using explosion-proof equipment. Use process enclosures, local exhaust ventilation or other engineering controls to airborne contaminants below any recommended or statutory limits, and gas, vapour or dust concentrations below any lower explosive limits.

Individual protection measures

The personal protective equipment selected must comply with the EC Council Directive 89/686/EEC.

Hygiene measures

Wash hands, forearms and face after handling the product, before eating, smoking and using the lavatory and at the end of the working period. Remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location and regularly tested.

Eye/face protection

Use safety glasses, and/or face shield.

Hand protection

Use chemically resistant protective gloves that comply with the standard EN374; e.g., gloves based on butyl rubber or neoprene, 0.7 mm thickness or more, with breakthrough time of 2 hours or more.

Body protection

Flame retardant antistatic clothing, e.g., lab coat or when required antistatic overalls, boots and gloves. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Refer to European Standard EN 1149 for further information on electrostatic properties of protective clothing.

Respiratory protection

Select a respirator based on the hazard and potential for exposure, which meets the appropriate standard or certification. Ensure proper fitting, training, and other important aspects of use. Recommended filter type: Filter A according to DIN 3181. Maintenance, cleaning and testing must be done according to the manufacturer, and properly documented.

Environmental exposure controls

Do not let product enter drain. Emissions from equipment or ventilation should be checked to ensure they comply with the requirements of the environmental protection legislation. Consider the use of fume scrubbers, filters or engineering modifications to the process equipment to reduce emissions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Agarose-based resin prepacked in chromatography column with 20% ethanol as preservative. Deep blue color.

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Suspension
Color	Deep blue
Odour	Alcohol
Odour threshold	No information available
pH	No information available

Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	38°C, closed cup
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative density	No information available
Solubility(ies)	Ethanol soluble in water, particles insoluble
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidising properties	No information available

9.2 Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

Product is stable. Reactivity data not available.

10.1 Reactivity

Vapour/air-mixtures are explosive at intense heating.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal use or storage.

10.4 Conditions to avoid

Heating and sources of ignition.

10.5 Incompatible materials

Strongly oxidizing materials.

10.6 Hazardous decomposition products

No hazardous decompositions products produced under normal use or storage.

SECTION 11: TOXICOLOGICAL INFORMATION

Not available. We are not aware of any other hazards for the product.

1.1 Information on toxicological effects

Acute toxicity Ethanol: LC50 Inhalation vapour in rat is 124700 mg/m³ for 4 hours exposure. Ingestion causes nausea and vomiting.
Nickel ions: Toxic if swallowed. No information available.

Irritation No information available.

Corrosivity	No information available.
Sensitisation	No information available.
Repeated dose toxicity	Nickel ions: Category 1 No information available.
Carcinogenicity	No information available.
Mutagenicity	No information available.
Toxicity for reproduction	No information available.

SECTION 12: ECOLOGICAL INFORMATION

Not available. We are not aware of any other hazards for the product.

12.1 Toxicity

Ingredient name	Results	Species	Exposure
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l	Fresh water Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l	Marine water Crustaceans - Artemia franciscana - Larvae	48 hours
Nickel	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae – Ulva pertusa	96 hours
	Acute EC50 2 ppm Marine water	Algae - Macrocystis pyrifera – Young	4 days
	Acute EC50 450 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 1000 µg/l Marine water	Daphnia - Daphnia magna	48 hours
	Acute IC50 0.31 mg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 47.5 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 100 mg/l Marine water	Algae - Glenodinium halli	72 hours
	Chronic NOEC 3.5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks

12.2 Persistence and degradability

Ethanol is degraded readily in fresh water in 20 days.

Inorganic compounds are not degradable.

12.3 Bioaccumulative potential

Nickel (II) compounds Invertebrates, BCF 100-60000
Fish, BCF 1-100
Algae, BCF 10-460

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT Not applicable

vPvB Not applicable

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of product should be handled in accordance with regional requirements. Dispose via approved waste disposal contractor.

13.1 Waste treatment methods

Product**Hazardous waste**

This product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Waste treatment methods The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of local, regional, national or international environmental protection and waste disposal legislation. Dispose of mentioned materials must be done via approved waste disposal contractor. Waste must not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. The emptied container may contain residues of the product and must be disposed of accordingly.

European waste catalogue (EWC) According to Decision 2014/955/EU list of waste pursuant to Directive 2008/98/EC.

Waste code 07 07 99

Waste designation Wastes not otherwise specified

Packaging**Waste treatment methods**

Generation of waste should be avoided or minimised wherever possible. Packaging waste should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: TRANSPORTATION INFORMATION

Not classified; IATA special provisions A 58- Aqueous solutions containing 24% or less alcohol by volume is not subject to these regulations.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not available

14.3 Transport hazard class(es)

Not available

14.4 Packing group

Not available

14.5 Environmental hazards

None

14.6 Special precautions for user

Transport in closed container, upright and secure. The person transporting the product must know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

None of the components listed.

Regulation (EC) No 850/2004 of the European Parliament on persistent organic pollutants and amending Directive 79/117/EEC.

None of the components listed.

Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals.

None of the components are listed.

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

Regulation (EC) No 1907/2006 (REACH)

Annex XIV – List of substances subject to authorisation

None of the components are listed.

Substances of higher concern:

Nickel sulphate: is a candidate for inclusion in Annex XIV for the reason of Toxic for reproduction Appendix 6 Entry 30 — Toxic to reproduction: category 1B (Table 3.1)/category 2 (Table 3.2) (according to article 57c).

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the substances listed.

Other regulations

Directive 2008/105/EC – Environmental quality standards in the field of water policy

Annex I – Environmental quality standards (EQS)

Nickel sulphate	AA-EQS Inland surface waters, 20 µg/L
	AA-EQS Other surface waters, 20 µg/L
	MAC-EQS Inland surface waters, not applicable
	MAC-EQS Other surface waters, not applicable
	(AA-Annual average; MAC, maximum allowable concentration)

German water hazard classes (Wassergefährdungsklassen) (VwVwS)

Annex 2 – Substances hazardous to water

Ethanol	Hazard class 1 – low hazard
Nickel (II) sulphate	Hazard class 3 – hazard to waters

DIRECTIVE 2012/18/EU (Seveso III)

Ethanol	P5c	Flammable liquid Category 2	Limit 5000 tonnes
Nickel (II) sulphate	E1	Hazardous to the Aquatic Environment	Limit 100 tonnes

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification
Mixture	Substance	
Flam. Liq. 3, H226	Ethanol: Flam. Liq. 2, H225	Concentration <20%; Flash point 38 °C between ≥ 23°C and 60°C
Carcinogenic 1A	Nickel ions:	< 0.5 % concentration

Aquatic Acute 1 Aquatic Chronic 1	Carc. 1A Repr. 1B Acute Tox. 3 Acute Tox. 3 STOT RE 1 Skin Irrit. 2 Resp. Sens. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	
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H-Statements

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
H317 May cause an allergic skin reaction.
H350i May cause cancer by inhalation
H351 Suspected of causing cancer.
H341 Suspected of causing genetic defects
H360D May damage the unborn child.
H331 Toxic if inhaled.
H301 Toxic if swallowed.
H350 May cause cancer
H372 Causes damage to organs through prolonged or repeated exposure
H315 Causes skin irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H410 Harmful to aquatic life with long lasting effects.

P-statements

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378 In case of fire: Use ... for extinction.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local, regional, national or international regulations.

Abbreviations

BCF Bioconcentration factor
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EQS Environmental Quality Standard
IC50 Lethal concentration in water required to kill 50% of the population
LC50 Lethal concentration required to kill 50% of the population
LD50 Lethal dose required to kill 50% of the population
LLV Lower Limit Value
MAC Maximum Allowable Concentration
NIOSH National Institute for Occupational Safety and Health
NOEC No Observed Effect Concentration
OELs Occupational Exposure Limits
PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted No Effect Concentration

STEL Short-Term Exposure Limits
TWA Time-Weighted Average
vPvB very Persistent, very Bioaccumulative and/or Toxic

Revision

Version	Changes	Date
1.0	First version	Jun. 26, 2020
2.0	Updated contact information.	May 26, 2021
3.0	Corrected the product name.	Aug. 10, 2021