ECOLAB ZNOJMO, spol. s r.o.

Safety data sheet

according to Regulation (ES) No 1907/2006,as amended by Regulation No 830/2015/EU

Printing date 30.12.2016 Revision: 26.12.2016

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

1.1 Product identifier
Trade name: **SILVAMIX®R50 /NPK(MgO) 10-7-18(7,5)/**
SILVA TABS®Strawberry /NPK(MgO) 20-15-10(2)+TE/
UREADUR 90TE /NPK(MgO) 17-8-13(4)+TE/
PLANTODUR 90TE /NPK(MgO) 19-7-11(4,8)+TE/
FLORAFERT 70TE /NPK(MgO) 10-26-10(2)+TE/
Article number: MSDS 595S
1.2 Relevant identified uses of the substance or mixture and uses advised against
Sector of Use Agriculture, forestry, ornamental gardening, house planting, horticulture.
Product category Fertilizers
Application of the substance / the preparation Fertilizer

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
ECOLAB Znojmo, spol. s.r.o.
Václavské nám.1
669 02 Znojmo, Czech Republic
e-mail.info@silvamix.com
Competent person RNDr.Martinů Vlastimil, martinu@ecolab.cz, Tel:+420737259500
1.4 Emergency telephone number: Toxicological center +420224919293,+420224915402,+420224914575

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
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 Void
Signal word Void
Hazard statements
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements

P102	Keep out of reach of children.
P281	Use personal protective equipment as required.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P334	IF ON SKIN: Immerse in cool water/wrap in wet bandages.
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: consisting of the following hazarde components.
Dangerous components:
CAS: 1309-48-4 magnesium oxide 2.5-10%
EINECS: 215-171-9

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CAS: 10034-96-5 mangan(II)-sulphate-monohydrate ≤ 2.5%
EINECS: 232-089-9 Aquatic Chronic 2, H411

CAS: 7758-98-7 copper sulphate ≤ 2.5%
EINECS: 231-847-6 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319

CAS: 7446-19-7 zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate) ≤ 2.5%
EINECS: 231-793-3 Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302

CAS: 10043-35-3 boric acid ≤ 2.5%
EINECS: 233-139-2 Repr. 1B, H360FD

SVHC

10043-35-3 boric acid

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
Will a health problem or if in doubt,talk to your doctor and give him information on this data sheet.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Generally the product does not irritate the skin.
After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing: 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 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
Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters
Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
6.2 Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
6.3 Methods and material for containment and cleaning up: Pick up mechanically.
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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling No special measures required.
Handling: Not required.
Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Store away from foodstuffs.
Further information about storage conditions: None.
Storage class:
Class according to regulation on flammable liquids: Void
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

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

1309-48-4 magnesium oxide

WEL Long-term value: 10* 4** mg/m³
(as Mg) *inhalable dust **fume and respirable dust
CAS No. Designation of material % Type Value Unit Not required.
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures: Wash hands before breaks and at the end of work.
Respiratory protection: Not required.
Recommended filter device for short term use: Not required
Protection of hands:
Plastic gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:
Plastic gloves
Eye protection: Not required.
Body protection: Light weight protective clothing

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information

Appearance:	
Form:	Tablets
Colour:	Light brown
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	7.0-7.4
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Vapour pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water:	Partly soluble.
Partition coefficient (n-octanol/water):	Data are not know.
Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.00 %
Solids content:	100.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
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: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity:
LD/LC50 values relevant for classification:

7758-98-7 copper sulphate

Oral LD50 300 mg/kg (rat)

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Primary irritant effect:
on the skin: No irritant effect.
on the eye: No irritating effect.
Sensitization: No sensitizing effects known.
Toxicokinetics, metabolism and distribution Unknow.
Acute effects (acute toxicity, irritation and corrosivity) Data are not know
Repeated dose toxicity Data are not know.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential unspecifird
12.4 Mobility in soil No further relevant information available.
Ecotoxical effects:
Remark: Harmful to fish
Additional ecological information:
General notes: Harmful to aquatic organisms
12.5 Results of PBT and vPvB assessment Not applicable.
PBT: Not applicable.
vPvB: Not applicable.
12.6 Other adverse effects No further relevant information available.

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.
European waste catalogue
06 10 99 wastes not otherwise specified
Uncleaned packaging:
Recommendation: Non contaminated packagings may be recycled.

SECTION 14: Transport information

14.1 UN-Number	
ADR	not applicable
14.2 UN proper shipping name	
ADR	not applicable
14.3 Transport hazard class(es)	No
14.4 Packing group	No
ADR	not applicable
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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Transport/Additional information: Not dangerous according to the above specifications.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations:
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).
Regulation (EC) No 830/2015
Classification according to VbF: Void
Technical instructions (air):
Class Share in %
III ≤ 2,5
Waterhazard class: Generally not 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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye 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 Once a year in the range of MSDS.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
GHS: Globally Harmonized 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)
VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
SVHC: Substances of Very High Concern
Sources prescriptiom producer
*** Data compared to the previous version altered.**