Euro FolVive Mn Zn Liquid

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

1.1. Product identifier
Product form: Mixture
Trade name: Euro FolVive Mn Zn Liquid

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Main use category : Professional use
Use of product : Fertiliser

1.2.2. Uses advised against
Restrictions on use : No supplementary information available

1.3. Details of the supplier of the safety data sheet
Eurosolids Nederland
P.O. Box 1333
3260 AH Oud-Beijerland - Nederland
T +31 (0) 186 578 888 - F +31 (0) 186 573 452
info@eurosolids.com - www.eurosolids.com

1.4. Emergency telephone number
In case of emergency contact the national emergency telephone number: UK and Ireland: 112 or 999

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects
To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements
Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008.

2.3. Other hazards
This mixture does not meet the PBT- and/or vPvB-criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Rinse with water. Soap may be used. Remove all contaminated clothing and footwear. Take victim to a doctor if irritation persists.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.

First-aid measures after ingestion : If victim conscious and alert, give 1-2 glasses of water to drink. Do NOT induce vomiting. Immediately consult a doctor/medical service.

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

Symptoms/effects after inhalation	:	Slight irritation. Exposure to high concentrations: irritation of the respiratory tract, dry/sore throat, coughing, respiratory difficulties.
Symptoms/effects after skin contact	:	Slight irritation. Red skin.
Symptoms/effects after eye contact	:	Redness of the eye tissue. Slight irritation. Visual disturbances.
Symptoms/effects after ingestion	:	Nausea. Vomiting.
Chronic symptoms	:	On continuous/repeated exposure/contact: dry skin. Skin rash/inflammation.

4.3 Indication of any immediate medical attention and special treatment needed
Follow the advices in chapter 4.1. Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Extinguishing media for surrounding fires : All extinguishing media allowed. Use fire extinguishing methods suitable to surrounding conditions.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Direct fire hazard: Non combustible.
Explosion hazard	:	No direct explosion hazard.
Hazardous decomposition products in case of fire	:	On heating/burning: release of toxic and corrosive gases/vapours (nitrous vapours),and formation of metallic fumes

5.3. Advice for firefighters

Precautionary measures fire	:	Exposure to fire/heat: keep upwind, consider evacuation and have neighborhood close doors and windows.
Firefighting instructions	:	Dilute toxic gases with water spray.
Protection during firefighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire- fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Ensure adequate air ventilation. Do not get in eyes, on skin, or on clothing. Keep away from naked flames/heat.

6.1.1. For non-emergency personnel

Protective equipment	:	Wear protective gloves/protective clothing/eye protection as adviced in section 8.
Emergency procedures	:	Mark the danger area. No naked flames. Keep containers closed. Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment	:	Wear protective gloves/protective clothing/eye protection as adviced in section 8.

6.2. Environmental precautions
Stop leaks if possible. Dam up the liquid spill. Prevent spreading in sewers. Prevent soil and water pollution. Contain leaking substance, pump over in suitable containers. Turn leaking containers leak-side up to prevent the escape of liquid. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	:	Any spillage should be cleaned up immediately. Collect spill in closed and suitable containers for disposal. Take up rest of liquid spill into absorbent material sand, earth, vermiculite. Scoop absorbed substance into closing containers.
Methods for cleaning up	:	Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
Other information	:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
See section 1 for emergency contact information.
See section 8 for information on appropriate personal protective equipment.
See section 13 for additional waste treatment information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use sufficient ventilation. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection as adviced in section 8.

Hygiene measures : Do not eat, drink or smoke during use. Always wash hands after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Keep away from food, drink and animal feeding stuffs. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep preferably in the original container.

Storage temperature : 0 - 30 °C

Storage area : Store in dry, cool, well-ventilated area. Keep out of direct sunlight.

Special rules on packaging : Meet the legal requirements. Correctly labelled. Closing. Secure fragile packagings in solid containers.

Packaging materials : Suitable material: synthetic material, HDPE, Stainless steel

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Protective clothing. Gloves. Safety glasses.

Hand protection : Gloves

Material selection gloves : Good resistance gives: nitrile rubber. Take advice to your gloves' supplier

Type	Material	Permeation	Thickness (mm)	Standard
Reusable gloves	Polyvinylchloride (PVC)	6 (> 480 min)	0.5 mm	EN 374

Eye protection : Safety glasses

Skin and body protection : Normal working clothes are suitable

Respiratory protection : Ensure adequate air ventilation. Mist formation: aerosol mask with filter type P2

Environmental exposure controls : In some cases proces modifications will be necessary to reduce emissions to acceptable levels. Emissions from ventilation or work process equipment should be checked to ensure they comply with legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid.
Colour	:	Dark brown.
Odour	:	Characteristic.
Odour threshold	:	No data available
pH	:	5 – 6
Crystallization temperature	:	-5 °C
Vapour pressure	:	2300 Pa
Density	:	1.16 kg/l
Solubility	:	Water: complete

Log Pow	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No (test)data available
Explosive properties	:	Not explosive.
Oxidising properties	:	Not oxidising.

9.2 Other information
Additional information : Refer to product datasheet

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known.

10.2. Chemical stability
The product is stable at normal handling and storage conditions. May be give slightly sedimentation after some time.

10.3. Possibility of hazardous reactions
Thermal decomposition can lead to the escape of irritating gases and vapours (oxides of nitrogen).
This product can react with strong reducing or oxidizing agents. May react violently with acids and with (some) bases.

10.4. Conditions to avoid
Avoid high temperatures.

10.5. Incompatible materials
Keep substance away from: oxidizing agents.

10.6. Hazardous decomposition products
On burning: release of toxic and corrosive gases/vapours (nitrous vapours, ammonia, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met). pH: 5 - 6
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met). pH: 5 - 6
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : Classification concerning the environment: not applicable.

12.2 Persistence and degradability

Euro FolVive Mn Zn Liquid	
Persistence and degradability	Not readily biodegradable in water.

12.3 Bioaccumulative potential

Euro FolVive Mn Zn Liquid	
Bioaccumulative potential	Bioaccumulation: not applicable.

12.4 Mobility in soil

Euro FolVive Mn Zn Liquid	
Ecology - soil	Soluble in water.

12.5 Results of PBT and vPvB assessment

Euro FolVive Mn Zn Liquid
This mixture does not meet the PBT and/or vPvB-criteria of REACH regulation, annex XIII

12.6 Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods
European List of Waste (LoW) code:
02 01 09 - agrochemical waste other than those mentioned in 02 01 08
Depending on branch of industry and production process, also other EURAL codes may be applicable

Regional legislation (waste):
Disposal must be done according to official regulations.

Waste treatment methods:
Dispose in a safe manner in accordance with local/national regulations. Empty and rinsed containers can be disposed as non-hazardous material or be returned for recycling.

Product/Packaging disposal recommendations:
Do not discharge into drains or the environment. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

Additional information:
The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.

SECTION 14: Transport information

14.1 UN number
Not regulated for transport

14.2 UN proper shipping name
Not applicable

14.3 Transport hazard class(es)
Not applicable

14.4 Packing group
Not applicable

14.5 Environmental hazards
Dangerous for the environment: No
No supplementary information available

14.6 Special precautions for user
No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list. Contains no REACH Annex XIV substances

15.2. Chemical safety assessment
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

SECTION 16: Other information

Version : 1.2 A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis
Revision date : 16/03/2017
Date of issue : 01/06/2015
Supersedes : 01/06/2015
Indication of changes : Refer table below.

1.2	Restrictions on use	Added	
7.3	Specific end uses	Modified	

Abbreviations and acronyms:

Euro FolVive Mn Zn Liquid

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources	:	BIG-database. ECHA Website: Information on Registered Substances. Handbook of Chemistry and Physics CRC Press Inc. Information from suppliers.
Training advice	:	Before using/handling the product one must read carefully the MSDS.

Company disclaimer
The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.