

Safety Data Sheet

Issue Date 12-Mar-2014

Revision Date 10-Oct-2019

Version: 4.01

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

1.1. Product identifier

Product Name Sportsmaster CRF 26-5-11+2MgO+TE
Product Code: 42590125DA
Synonyms: Sportsmaster CRF 26-2.2-9.1+1.2Mg+TE
Pure substance/mixture Mixture.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Fertilizer (PC12). Restricted to professional users.
Uses Advised Against: Consumer use [SU 21].

1.3. Details of the supplier of the safety data sheet

Everris International B.V. Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0)45-5609100; Fax: +31 (0)45-5609190.

For further information, please contact: INFO-MSDS@EVERRIS.COM.

1.4. Emergency telephone number: IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h).

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Mixture

Regulation (EC) No 1272/2008 (CLP)

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal Word: None

EU Specific Hazard Statements:

EUH210 - Safety data sheet available on request

Other hazards (UN-GHS)

H316 - Causes mild skin irritation

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No.	CAS No	Weight %	Classification according Regulation (EC) 1272/2008 [CLP]	REACH registration number
Urea	200-315-5	57-13-6	40 - 65%	Not classified	01-2119463277-33
Ammonium nitrate; NH ₄ NO ₃	229-347-8	6484-52-2	5 - 10%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Sulphur; S	231-722-6	7704-34-9	1 - 5%	Skin Irrit. 2 (H315)	01-2119487295-27
Magnesium oxide; MgO	215-171-9	1309-48-4	1 - 5%	Not classified	Exempt
Magnesium carbonate; MgCO ₃	208-915-9	546-93-0	0.1 - 1%	Not classified	01-2119523999-20
Calcium sulfate anhydrous; CaSO ₄	231-900-3	7778-18-9	0.1 - 1%	Not classified	01-2119444918-26
Wax	601-216-3	112945-52-5	0.1 - 1%	Not classified	01-2119488076-30

Diiron trioxide; Fe ₂ O ₃	215-721-8	1345-25-1	0.1 - 1%	Not classified	01-2119638146-39
Manganese sulphate; MnSO ₄ +1H ₂ O	232-08-99	7785-87-7	0.1 - 1%	STOT RE 2 (H373) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	01-2119456624-35
Iron sulphate; FeSO ₄ +1H ₂ O	231-753-5	7720-78-7	< 0.1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119513203-57
Manganese oxide; MnO	215-202-6	1344-43-0	< 0.1%	Not classified	01-2119446291-44
Zinc oxide; ZnO	1314-13-2	1314-13-2	< 0.1%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119463881-32
Calcium carbonate; CaCO ₃	207-439-9	471-34-1	< 0.1%	Not classified	Exempt
Zinc sulfate anhydrous; ZnSO ₄	231-793-3	7733-02-0	< 0.1%	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119474684-27
Copper (I) oxide; Cu ₂ O	215-270-7	1317-39-1	< 0.1%	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119513794-36
Copper sulphate anhydrous; CuSO ₄	231-847-6	7758-98-7	< 0.1%	Eye Dam. 1 (H318) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119520566-40

Full text of H- and EUH-phrases: see section 16.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice:

First aid measures should be executed by trained personnel only.

Inhalation

In case of shortness of breath, give oxygen. Possible symptoms are coughing and/or dyspnoea. Move to fresh air. If symptoms persist, call a physician.

Skin Contact:

If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye Contact:

Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

Ingestion:

Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. In case of respiratory difficulties practice oxygenotherapy. Possible symptoms are nausea and/or vomiting.

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

None under normal processing

4.3. Indication of any immediate medical attention and special treatment needed

None under normal processing.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media:

Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO₂, water spray or "alcohol" foam.

Unsuitable Extinguishing Media:

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Use extinguishing agent suitable for type of surrounding fire. In the event of fire and/or explosion do not breathe fumes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions:** Avoid dust formation. Ensure adequate ventilation.**For Emergency Responders:** Use personal protection recommended in Section 8.**6.2. Environmental precautions**

Prevent product from entering drains. Do not contaminate surface water.

6.3. Methods and material for containment and cleaning up*Methods for Containment:* Prevent further leakage or spillage if safe to do so.*Methods for Cleanup:* Shovel or sweep up. Use up product completely. Packaging material is industrial waste.**6.4. Reference to other sections**

§ 8, 12, 13.

Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep away from heat and sources of ignition. Keep away from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used packaging should be closed well. Keep at temperatures between 0 °C and 40 °C.

Packaging Materials:

LGK (Germany)

Store in original container. Store in a closed container.

Exempt

7.3. Specific end use(s)

Specific use(s)

Exposure scenario

Fertilizer; www.everris.com; Read and follow label instructions
Mixture. Not required.**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

<i>Urea</i>	
Bulgaria - OEL- TWAs	10.0 mg/m ³ TWA
Latvia - OEL - TWAs	10 mg/m ³ TWA
<i>Ammonium nitrate; NH₄NO₃</i>	
Australia	N.A.
Czech Republic OEL	10.0 mg/m ³ TWA
<i>Sulphur; S</i>	
Latvia - OEL - TWAs	6 mg/m ³ TWA
Russia TWA	6 mg/m ³ TWA 1863
<i>Magnesium oxide; MgO</i>	
Austria	STEL 10 mg/m ³ TWA: 5 mg/m ³
Australia	10 mg/m ³ TWA fume
Belgium - 8 Hr TWA	10 mg/m ³

Bulgaria - OEL- TWAs	10.0 mg/m ³ TWA
Czech Republic OEL	5 mg/m ³ TWA
Denmark	TWA: 6 mg/m ³
FR - OEL - 8h VMEs	TWA: 10 mg/m ³
Hungary - OEL - TWAs	6 mg/m ³ TWA
Iceland - OEL - 8 Hour	6 mg/m ³ TWA Mg
Ireland	TWA: 4 mg/m ³ STEL: 10 mg/m ³
Korea - ISHA - OEL - TWAs	10 mg/m ³ TWA (Serial No. 277)
Malaysia	10 mg/m ³ TWA (fume)
Norway	TWA: 10 mg/m ³ STEL: 20 mg/m ³
Poland	TWA: 10 mg/m ³
Portugal	TWA: 10 mg/m ³
Romania - OEL - TWAs	5 mg/m ³ TWA (fume)
Spain - Valores Limite Ambientales - VLE	TWA: 10 mg/m ³
Singapore - OEL:PELs	10 mg/m ³ PEL
Switzerland	TWA: 3 mg/m ³
UK EH40 WEL (8h)	10 mg/m ³
<i>Magnesium carbonate; MgCO₃</i>	
Australia	10 mg/m ³ TWA inhalable dust
FR - OEL - 8h VMEs	TWA: 10 mg/m ³
Korea - ISHA - OEL - TWAs	10 mg/m ³ TWA (Serial No. 493)
Malaysia	10 mg/m ³ TWA (particulate matter containing no Asbestos and <1% crystalline Silica)
Switzerland	TWA: 3 mg/m ³
UK EH40 WEL (8h)	LTEL (8hr TWA) 10mg/m ³
<i>Calcium sulfate anhydrous; CaSO₄</i>	
Austria	STEL 10 mg/m ³ TWA: 5 mg/m ³
Australia	10 mg/m ³ TWA inhalable dust
Belgium - 8 Hr TWA	10 mg/m ³ TWA
Bulgaria - OEL- TWAs	10.0 mg/m ³ TWA
FR - OEL - 8h VMEs	TWA: 10 mg/m ³
Hungary - OEL - TWAs	6 mg/m ³ TWA
Ireland	TWA: 10 mg/m ³ STEL: 30 mg/m ³
Latvia - OEL - TWAs	4 mg/m ³ TWA (hydrogenated, plaster dust)
Malaysia	10 mg/m ³ TWA (particulate matter containing no Asbestos and <1% crystalline Silica)
Poland	TWA: 10 mg/m ³
Portugal	TWA: 10 mg/m ³
Slovenia - OEL - TWAs	6 mg/m ³ TWA (respirable fraction)
Spain - Valores Limite Ambientales - VLE	TWA: 10 mg/m ³
Singapore - OEL:PELs	10 mg/m ³ PEL
Switzerland	TWA: 3 mg/m ³
<i>Wax</i>	
Austria	TWA: 4 mg/m ³
<i>Diiron trioxide; Fe₂O₃</i>	
Austria	STEL 20 mg/m ³ TWA: 5 mg/m ³ TWA: 10 mg/m ³
greece OEL 15 minute	10 mg/m ³ STEL Fe
Hungary - OEL - TWAs	6 mg/m ³ TWA
Japan	1 mg/m ³ OEL 4 mg/m ³ OEL
Poland	STEL: 10 mg/m ³ STEL: 5 mg/m ³ TWA: 5 mg/m ³ TWA: 2.5 mg/m ³
Switzerland	TWA: 3 mg/m ³
UK EH40 WEL (8h)	1 mg/m ³ TWA
<i>Manganese sulphate; MnSO₄+1H₂O</i>	
Austria	STEL 2 mg/m ³ TWA: 0.5 mg/m ³
Australia	0.2 mg/m ³
Belgium - 8 Hr TWA	0.2 mg/m ³

Denmark	TWA: 0.2 mg/m ³
Finland	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³
Ireland	TWA: 0.2 mg/m ³ STEL: 0.6 mg/m ³
Japan	0.2 mg/m ³ OEL Mn
NL MAC - TWA:	STEL: 0.05 mg/m ³ TWA: 0.2 mg/m ³
Norway	TWA: 0.1 mg/m ³ STEL: 0.1 ppm
Poland	TWA: 0.05 mg/m ³
Portugal	TWA: 0.2 mg/m ³
Spain - Valores Limite Ambientales - VLE	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³
Switzerland	TWA: 0.5 mg/m ³
UK EH40 WEL (8h)	5 mg/m ³
<i>Iron sulphate; FeSO₄+1H₂O</i>	
Belgium - 8 Hr TWA	1 mg/m ³
Denmark	TWA: 1 mg/m ³
Finland	TWA: 1 mg/m ³
Ireland	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Norway	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Portugal	TWA: 1 mg/m ³
Spain - Valores Limite Ambientales - VLE	TWA: 1 mg/m ³
Switzerland	TWA: 1 mg/m ³
UK EH40 WEL (8h)	LTEL (8 hr TWA) 1 mg/m ³ STEL (15 min) 2mg/m ³
<i>Manganese oxide; MnO</i>	
Austria	STEL 2 mg/m ³ TWA: 0.5 mg/m ³
Bulgaria - OEL- TWAs	0.3 mg/m ³ TWA (as Mn)
Denmark	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³
Finland	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³
Ireland	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.6 mg/m ³ STEL: 0.15 mg/m ³
Japan	0.2 mg/m ³ OEL Mn
NL MAC - TWA:	STEL: 0.05 mg/m ³ TWA: 0.2 mg/m ³
Norway	TWA: 0.1 mg/m ³ STEL: 0.1 ppm
Poland	TWA: 0.05 mg/m ³
Portugal	TWA: 0.2 mg/m ³
Spain - Valores Limite Ambientales - VLE	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³
Switzerland	TWA: 0.5 mg/m ³
<i>Zinc oxide; ZnO</i>	
Austria	TWA: 5 mg/m ³
Australia	5 mg/m ³ TWA
Belgium - 8 Hr TWA	10 mg/m ³ TWA
Bulgaria - OEL- TWAs	5.0 mg/m ³ TWA (as Zn)
Croatia - OEL - STELs (KGVIs)	10 mg/m ³ STEL [KGVl]
Czech Republic OEL	2 mg/m ³ TWA (as Zn)
Denmark	TWA: 4 mg/m ³
Finland	TWA: 2 mg/m ³ STEL: 10 mg/m ³
FR - OEL - 8h VMEs	TWA: 5 mg/m ³ TWA: 10 mg/m ³
greece OEL 15 minute	10 mg/m ³ STEL
Hungary - OEL - TWAs	5 mg/m ³ TWA
Iceland - OEL - 8 Hour	4 mg/m ³ TWA Zn
Ireland	TWA: 2 mg/m ³ STEL: 10 mg/m ³
Japan	1 mg/m ³ OEL
Korea - ISHA - OEL - TWAs	2 mg/m ³ TWA (dust, respirable fraction, Serial No. 280); 5 mg/m ³ TWA

	(fume, Serial No. 281)
Latvia - OEL - TWAs	0.5 mg/m ³ TWA
Malaysia	5 mg/m ³ TWA (fume); 10 mg/m ³ TWA (dust)
Norway	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Poland	STEL: 10 mg/m ³ TWA: 5 mg/m ³
Portugal	STEL: 10 mg/m ³ TWA: 2 mg/m ³
Romania - OEL - TWAs	5 mg/m ³ TWA (fume)
Russia TWA	0.5 mg/m ³ TWA 2360
Slovenia - OEL - TWAs	5 mg/m ³ TWA (respirable fraction, fume)
Spain - Valores Limite Ambientales - VLE	STEL: 10 mg/m ³ TWA: 2 mg/m ³
Singapore - OEL:PELs	5 mg/m ³ PEL 10 mg/m ³ PEL
Switzerland	STEL: 3 mg/m ³ TWA: 3 mg/m ³
UK EH40 WEL (8h)	5 mg/m ³ TWA
<i>Calcium carbonate; CaCO₃</i>	
Australia	10 mg/m ³ TWA inhalable dust
Czech Republic OEL	10.0 mg/m ³ TWA
FR - OEL - 8h VMEs	TWA: 10 mg/m ³
Korea - ISHA - OEL - TWAs	10 mg/m ³ TWA (Serial No. 572)
Latvia - OEL - TWAs	6 mg/m ³ TWA
Poland	TWA: 10 mg/m ³
Portugal	TWA: 10 mg/m ³
Switzerland	TWA: 3 mg/m ³
UK EH40 WEL (8h)	10 mg/m ³ TWA (inhalable) 4 mg/m ³ TWA (respirable)
<i>Copper (I) oxide; Cu₂O</i>	
Austria	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³
Finland	TWA: 0.02 mg/m ³
Poland	TWA: 0.2 mg/m ³
Switzerland	STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³
<i>Copper sulphate anhydrous; CuSO₄</i>	
Austria	STEL 4 mg/m ³ TWA: 1 mg/m ³
Australia	N.A.
Finland	TWA: 0.02 mg/m ³
Poland	TWA: 0.2 mg/m ³
Russia TWA	0.5 mg/m ³ TWA 1258
Switzerland	STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³

Derived No Effect Level (DNEL)

Component	Oral	Dermal	Inhalation
Urea 57-13-6 (40 - 65%)		580 mg/kg bw/day	292 mg/m ³
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2 (5 - 10%)	36 mg/m ³	5.12 mg/kg bw/day	8.9 mg/m ³
Manganese sulphate; MnSO ₄ +1H ₂ O 7785-87-7 (0.1 - 1%)	37.6 mg/m ³	0.004 mg/kg bw/day	0.2 mg/m ³

Predicted No Effect Concentration (PNEC)

No data available

Component	Fresh Water	Freshwater sediment	Sea Water	Sea sediment	Soil	Impact on Sewage Treatment
Urea	0.47 mg/l		0.047 mg/l			

57-13-6 (40 - 65%)						
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2 (5 - 10%)						18 mg/l
Manganese sulphate; MnSO ₄ +1H ₂ O 7785-87-7 (0.1 - 1%)	0.013 mg/l	0.011 mg/kg	0 mg/l	0.001 mg/kg	25.1 mg/kg	25.1 mg/kg
Copper sulphate anhydrous; CuSO ₄ 7758-98-7 (< 0.1%)	7.8 µg/l	87 mg/kg	5.2 µg/l	676 mg/kg	65 mg/kg	230 µg/l

8.2. Exposure controls**Personal protective equipment****Eye/Face Protection**

Wear eye/face protection

Hand protection

Gloves. Nitrile rubber (0.26 mm). Break through time. > 8 h.

Respiratory Protection

Not required; except in case of aerosol formation. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit

Skin and body protection:

Lightweight protective clothing

Hygiene Measures:

Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****Physical State:**

Solid

Appearance:

Granules

Color:

brown.

Odor:

None

Bulk density:900 - 1000 kg/m³**Melting Point/Freezing Point:**

No data available

Boiling Point/Range:

Solid. Not applicable.

Flash Point:

Solid. Not applicable.

Evaporation Rate:

Solid. Not applicable.

Flammability (solid, gas):

Not flammable

Vapor Pressure:

Solid. Not applicable.

Vapour density

Solid. Not applicable.

Relative density

No data available

Water Solubility:

No data available

Solubility(ies)

No data available

Partition Coefficient:

Solid. Not applicable.

Autoignition Temperature:

No data available

Decomposition temperature:

No data available

Explosive Properties:

Doesn't present explosion hazard.

9.2. Other information**VOC Content (%):**

Solid. Not applicable.

Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Not reactive.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels)

like charcoal, wood, flour, soot etc.

10.6. Hazardous decomposition products

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	May cause slight irritation.
Skin Contact	May cause irritation.
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts.

Information on Toxicological Effects

None known

Acute Toxicity

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Urea	= 8471 mg/kg (Rat)		
Ammonium nitrate; NH ₄ NO ₃	= 2217 mg/kg (Rat)	> 5000 mg/kg	> 88.8 mg/L (Rat) 4 h
Sulphur; S	> 3000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9.23 mg/L (Rat) 4 h
Magnesium oxide; MgO	= 3870 mg/kg (Rat) = 3990 mg/kg (Rat)		
Calcium sulfate anhydrous; CaSO ₄	> 3000 mg/kg (Rat)		
Wax	= 3160 mg/kg (Rat)		
Diiron trioxide; Fe ₂ O ₃	> 15 g/kg (Rat)		
Manganese sulphate; MnSO ₄ +1H ₂ O	= 2125 mg/kg (Rat)		> 4.98 mg/L (Rat) 4h
Iron sulphate; FeSO ₄ +1H ₂ O	= 500 mg/kg (Rat)	= 155 mg/kg (Rat)	
Zinc oxide; ZnO	> 5000 mg/kg (Rat)		
Calcium carbonate; CaCO ₃	= 6450 mg/kg (Rat)		
Zinc sulfate anhydrous; ZnSO ₄	= 1710 mg/kg (Rat)		
Copper (I) oxide; Cu ₂ O	= 470 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 2.92 mg/L (Rat) 4 h = 3.69 mg/L (Rat) 4 h
Copper sulphate anhydrous; CuSO ₄	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

Serious eye damage/eye irritation	Classification based on individual ingredients of the mixture.
Respiratory or skin sensitization	Classification based on individual ingredients of the mixture.
Germ Cell Mutagenicity	Classification based on individual ingredients of the mixture.
Carcinogenicity	Classification based on individual ingredients of the mixture.
Reproductive Toxicity	Classification based on individual ingredients of the mixture.

STOT - Single Exposure	Classification based on individual ingredients of the mixture.
STOT - Repeated Exposure	Classification based on individual ingredients of the mixture.
Aspiration Hazard	Classification based on individual ingredients of the mixture.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Should not be released into the environment

Unknown Aquatic Toxicity

1% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Urea	> 10000: 192 h Scenedesmus quadricauda mg/L EC50	16200 - 18300: 96 h Poecilia reticulata mg/L LC50	-	3910: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna Straus mg/L EC50
Ammonium nitrate; NH ₄ NO ₃	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Sulphur; S	-	866: 96 h Brachydanio rerio mg/L LC50 static 14: 96 h Lepomis macrochirus mg/L LC50 static 180: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-
Calcium sulfate anhydrous; CaSO ₄	-	2980: 96 h Lepomis macrochirus mg/L LC50 static 1970: 96 h Pimephales promelas mg/L LC50 static	-	3200: 120 h Nitscheria linearis mg/L EC50
Iron sulphate; FeSO ₄ +1H ₂ O	-	925: 96 h Poecilia reticulata mg/L LC50 static 0.56: 96 h Cyprinus carpio mg/L LC50 semi-static	-	152: 48 h Daphnia magna mg/L EC50 6.15 - 9.26: 48 h Daphnia magna mg/L EC50 Static
Zinc sulfate anhydrous; ZnSO ₄	64.8: 72 h Chlorella vulgaris mg/L EC50 2.4: 96 h Chlorella vulgaris mg/L EC50 0.056: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	0.162: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.05: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.218 - 0.42: 96 h Pimephales promelas mg/L LC50 flow-through 0.34 - 0.93: 96 h Oncorhynchus mykiss mg/L LC50 static 0.06: 96 h Pimephales promelas mg/L LC50 static 0.48 - 1.72: 96 h Poecilia reticulata mg/L LC50 static 49.23 - 64.16: 96 h Poecilia reticulata mg/L LC50 semi-static 3.55 - 6.32: 96 h Lepomis macrochirus mg/L LC50	-	0.538 - 0.908: 48 h Daphnia magna mg/L EC50 Static 0.75: 48 h Daphnia magna mg/L EC50

		static 0.168 - 0.25: 96 h Pimephales promelas mg/L LC50 semi-static 0.15: 96 h Cyprinus carpio mg/L LC50 semi-static 16.85 - 27.18: 96 h Cyprinus carpio mg/L LC50 static 3 - 4.6: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.63: 96 h Poecilia reticulata mg/L LC50 0.23 - 0.48: 96 h Pimephales promelas mg/L LC50		
Copper (I) oxide; Cu ₂ O	0.055 - 0.076: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.021 - 0.037: 96 h Pseudokirchneriella subcapitata mg/L EC50 65: 96 h Desmodesmus subspicatus mg/L EC50	-	-	0.51: 48 h Daphnia magna mg/L EC50
Copper sulphate anhydrous; CuSO ₄	-	0.1: 96 h Oncorhynchus mykiss mg/L LC50	-	0.024: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability**Persistence and Degradability:**

No persistent or cumulative effects were observed.

12.3. Bioaccumulative potential**Bioaccumulation:**

Does not bioaccumulate.

Chemical Name	LOGPOW
Urea	-1.59
Ammonium nitrate; NH ₄ NO ₃	-3.1

12.4. Mobility in soil

No data available.

12.5. PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods**Disposal of Wastes:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging:

Do not reuse container.

Other Information

Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

IMO / IMDG**14.1****UN-No:**

Not regulated

14.2**Proper shipping name:**

Not regulated

14.3**Hazard Class:**

Not regulated

14.4

Packing group: Not regulated

14.5

Chemical Name	IMDG - Marine Pollutants
Copper sulphate anhydrous; CuSO ₄ 7758-98-7 (< 0.1%)	IMDG regulated marine pollutant (Listed in the index, listed under Copper sulphate, anhydrous, hydrates and solution)

Marine Pollutant: Not regulated

14.6

Special Provisions None

14.7

Bulk transport according Annex II of MARPOL and IBC Code No data available

ADR/RID

14.1

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Hazard Class: Not regulated

14.4

Packing group: Not regulated

14.5

Environmental Hazard Not regulated

14.6

Special Provisions None

IATA

14.1

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Hazard Class: Not regulated

14.4

Packing group: Not regulated

14.5

Environmental Hazard Not regulated

14.6

Special Provisions None

Section 15: REGULATORY INFORMATION

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

Belgium

Component	Belgium - Major Accidents - Qualifying Quantities for Safety Reporting	Belgium - Major Accidents - Qualifying Quantities for Accident Prevention
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2 (5 - 10%)	2500 tonne (technical grade; (a) this applies to Ammonium nitrate in which the Nitrogen content as a result of Ammonium nitrate is (i) between 24.5% and 28% by weight and which contain <=0.4% total combustible or (ii) >28% by weight and which contain <=0.2% combustible substances (b) aqueous Ammonium nitrate solutions in which the concentration of Ammonium nitrate is >80% by weight)	350 tonne

Denmark

Denmark No data available

France

ICPE

Not regulated

Germany

LGK (Germany)
 Water Endangering Class (WGK):
 Gefahrstoffverordnung (Germany) TRGS 511

Exempt
 1 (Everris classification)
 C III

Component	German WGK Section
Urea 57-13-6 (40 - 65%)	1
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2 (5 - 10%)	1
Sulphur; S 7704-34-9 (1 - 5%)	class 1
Magnesium oxide; MgO 1309-48-4 (1 - 5%)	1
Calcium sulfate anhydrous; CaSO ₄ 7778-18-9 (0.1 - 1%)	class 1
Wax 112945-52-5 (0.1 - 1%)	3
Diiron trioxide; Fe ₂ O ₃ 1345-25-1 (0.1 - 1%)	NWG
Manganese sulphate; MnSO ₄ +1H ₂ O 7785-87-7 (0.1 - 1%)	2
Iron sulphate; FeSO ₄ +1H ₂ O 7720-78-7 (< 0.1%)	1
Manganese oxide; MnO 1344-43-0 (< 0.1%)	class 3
Zinc oxide; ZnO 1314-13-2 (< 0.1%)	class 2
Calcium carbonate; CaCO ₃ 471-34-1 (< 0.1%)	NWG
Zinc sulfate anhydrous; ZnSO ₄ 7733-02-0 (< 0.1%)	class 3
Copper (I) oxide; Cu ₂ O 1317-39-1 (< 0.1%)	class 3
Copper sulphate anhydrous; CuSO ₄ 7758-98-7 (< 0.1%)	2

Component	EU - Explosives Precursors Marketing and Use (98/2013) - Substances Subject to Suspicious Transactions Reporting	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium nitrate; NH ₄ NO ₃ 6484-52-2 (5 - 10%)	Present (in concentration of 16% by weight of Nitrogen in relation to Ammonium nitrate or higher)	Use restricted. See item 58. (Conditions of restrictions 27 June 2010)

15.2 Chemical safety assessment

Substance(s) usage is covered according to Reach regulation 1907/2006

Take note of Dir. 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work

Chemical Name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Ammonium nitrate; NH ₄ NO ₃	Use restricted. See item 58.	

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Ammonium nitrate; NH ₄ NO ₃	350	2500

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H302 - Harmful if swallowed

- H319 - Causes serious eye irritation
- H272 - May intensify fire; oxidizer
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ respiratory system/ central nervous system through prolonged or repeated exposure in contact with skin
- H411 - Toxic to aquatic life with long lasting effects
- H316 - Causes mild skin irritation

Key or legend to abbreviations and acronyms used in the safety data sheet

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No Effect Concentration

DNEL: Derived No-Effect Level

REACH: Registration, Evaluation, Authorization of Chemicals

CLP: EU-GHS; Classification, Labelling and Packaging

OEL: Occupational Exposure Limit

TWA: Time Weighted Average

ATE: Acute Toxicity Estimate

EUH phrase: CLP (EU) specific hazard statement

LD50: Lethal dose, 50%.

LC50: Lethal concentration, 50%.

SVHC: Substance of Very High Concern.

Classification procedure

- Calculation method
- Expert judgment and weight of evidence determination

Key literature references and sources for data

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 2015/830. Regulation (EC) No 1272/2008 (CLP).

Prepared by

Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

Issue Date

12-Mar-2014

Restrictions on use

Restricted to professional users

Reason for revision

*** Indicates changes since the last revision. This version replaces all previous versions

This information contained herein is, to the best of Everris' knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Everris shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Everris shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.