Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II / Regulation (EU) No. 2015/830.

Date of issue/ Date of revision : 10.01.2021



SAFETY DATA SHEET

Flower Fertilizer

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

1.1 Product identifier

Product name : Flower Fertilizer

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

Identified uses

Industrial distribution.

Industrial USE to formulate chemical product mixtures.

Professional formulation of fertiliser products.

Professional USE as fertiliser at Farm - loading and spreading.

Professional USE as fertiliser in Greenhouse.

Professional USE as liquid fertiliser in open field (e.g. Fertigation).

Professional USE as fertiliser - maintenance of equipment.

Uses advised against	: Other non-specified industry
Reason	: Due to lack of related experience or data, the supplier
	cannot approve this use.

1.3 Details of the supplier of the safety data sheet

Dutch Ground Control

<u>Address</u>

Street: Kikkertweg 62Postal code: 1521RGCity: WormerveerCountry: The NetherlandsTelephone number: +31 (0)23 23 40 855

e-mail address of person : info@dutchgroundcontrol.com

responsible for this SDS :

1.4 Emergency telephone number

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Supplier Telephone number : 0031 30 274 88 88 (24h only for medical proffecionals

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture.

Product definition : Mixture

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

Classification : Ox. Sol. 3, H272

Eye Irrit. 2, H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H272 May intensify fire; oxidizer.

H319 Causes serious eye irritation.

Precautionary statements

Prevention: P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P220 Keep away from clothing and other

combustible materials.

P280 Wear protective gloves and eye protection.

Response : P305 IF IN EYES:

P351 Rinse cautiously with water for several

minutes.

P338 Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a POISON CENTER or

doctor/physician.

P370 In case of fire:

P378-b Use flooding quantities of water to

extinguish.

EU Regulation (EC) No. : Applicable, Table 65.

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Seedling Fertilizer

1907/2006 (REACH) Annex XVII

- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

Product forms slippery surface when combined with water.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
potassium nitrate	RRN: 01-2119488224- 35 EC: 231-818-8 CAS: 7757-79-1	>= 65 - < 70	Ox. Sol. 3, H272	[1]
ammonium nitrate	RRN: 01-2119490981- 27 EC: 229-347-8 CAS: 6484-52-2	>= 15 - < 20	Ox. Sol. 3, H272 Eye Irrit. 2, H319	[1]
disodium [[N,N'- ethylenebis[N- (carboxymethyl)glycin ato]](4-)- N,N',O,O',ON,ON']man ganate(2-)	RRN: 01-2119493600- 40 EC: 239-407-5 CAS: 15375-84-5	>= 0.3 - < 1	Not classified.	[2]
boric acid	RRN: 01-2119486683- 25 EC: 233-139-2 CAS: 10043-35-3 Index: 005-007-00-2	>= 0.1 - < 0.2	Repr. 1B, H360FD (Fertility, Unborn child)	[1]

<u>Type</u>

[1] Substance classified with a physical, health or environmental hazard

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- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

See Section 16 for the full text of the H statements declared above.

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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Remarks: This product contains Boron (see section 7 and 11).

The content is below the level required for classification of

the product as toxic to reproduction.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Rinse with plenty of running water. Check for and remove any

contact lenses. If irritation persists, get medical attention.

Inhalation: If inhaled, remove to fresh air. In case of inhalation of

decomposition products in a fire, symptoms may be delayed. Get medical attention if you feel unwell. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact: Wash with soap and water. Get medical attention if irritation

develops.

Ingestion : Wash out mouth with water. If material has been swallowed and

the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain or irritation,

watering, redness

Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

under medical surveillance for 48 hours.

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Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Us

Use flooding quantities of water for extinction.

Unsuitable extinguishing media

Do NOT use chemical extinguisher or foam or attempt to

smother the fire with steam or sand.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

Oxidizing material. May intensify fire. The product itself is not combustible but it can support combustion, even in absence of air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides and ammonia. The product has high resistance to detonation, but mixing with incompatible substances and/or heating under strong confinement can lead to explosive behaviour.

Hazardous combustion products

: Decomposition products may include the following materials: nitrogen oxides, sulfur oxides, phosphorus oxides, metal oxide/oxides, ammonia, Avoid breathing dusts, vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms may be delayed.

5.3 Advice for firefighters

Special protective actions for fire-fighters

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

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

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

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For emergency responders

If specialized 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 dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill

Move containers from spill area. If contaminated with combustible material or reactive chemicals, use spark-proof tools and explosion-proof equipment. Avoid dust generation. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. If spilled product is contaminated with incompatible material (see Section 10), carry out a risk assessment to identify appropriate methods and equipment specific to the situation and nature of the contaminants.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Not for human or animal consumption.

Protective measures

Put on appropriate personal protective equipment (see Section 8). As a precaution, keep exposure as low as possible for pregnant women, children and workers in reproductive age. Avoid dust generation. Do not breathe dust. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from clothing, incompatible materials and combustible materials. Keep away from heat. Empty containers retain product residue and can be hazardous. Do not reuse

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container.

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from reducing agents and combustible 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. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep away from: organic materials, oil and grease.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Potassium nitrate	1,250 t	5,000 t

7.3 Specific end use(s)

Recommendations

: Do not generate and inhale liquid fertilizer aerosols.

In addition to overalls, gloves and eye protection, use of efficient respiratory protection (P2/P3 respirators with a tight face seal) during discharge of fertilizer bags and maintenance of equipment is recommended to minimize inhalation exposure and to ensure safe-use during this activity (see section 8).

Risk assessments show safe use during normal spreading of fertilizers containing below 5% of boron by tractor (liquid or granular) and backpack (liquid).

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-	NAOSH (2018-08-21) TWA 0.2 mg/m3 (as manganese) Form: Inhalable fraction
N,N',O,O',ON,ON']manganate(2-)	TWA 0.05 mg/m3 (as manganese) Form: Respirable fraction
boric acid	NAOSH (2018-08-21) TWA 2 mg/m3

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Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological 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 for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredie	Туре	Exposure	Value	Population	Effects
nt name					
ammonium	DNEL	Long term	256 mg/kg	Workers	Systemic
nitrate		Dermal	bw/day		
	DNEL	Long term Inhalation	451 mg/m ³	Workers	Systemic
disodium [[N,N'- ethylenebis[N- (carboxymethyl)gl ycinato]](4-)- N,N',O,O',ON,ON']manganate(2-)		Short term Inhalation	69 mg/m³	Workers	Systemic
, ,		Short term Inhalation	69 mg/m³	Workers	Local
		Long term Inhalation	12 mg/m³	Workers	Systemic
		Long term Dermal	25000 mg/kg bw/day	Workers	Systemic
boric acid	DNEL	Long term Inhalation	8.3 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	392 mg/kg bw/day	Workers	Systemic

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
potassium nitrate	PNEC	Sewage Treatment Plant	18 mg/l	Assessment Factors
ammonium nitrate	PNEC	Sewage Treatment Plant	18 mg/l	Assessment Factors
disodium [[N,N'-ethylenebis[N- (carboxymethyl)glycinato]](4-)- N,N',O,O',ON,ON']manganate(2-)		Fresh water	4.88 mg/l	Not applicable.

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Marine water	0.49 mg/l	Not applicable.
Intermittent release	6.49 mg/l	Not applicable.
Sewage Treatment Plant	64 mg/l	Not applicable.

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: Tightly-fitting goggles, CEN: EN166,

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.

Body protection

 Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use respiratory protection with more than 94% efficiency (P2, P3 or N95) and a tight face seal, when risk of exposure to dust.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary

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to reduce emissions to acceptable levels.

Personal protective equipment

(Pictograms)







SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>

Physical state Solid (Crystalline)

Color White., Odor Odorless. Odor threshold

Not determined. Hq Not determined Melting point/freezing point Not determined Initial boiling point and boiling Not determined

range

Flash point Not determined **Evaporation rate** Not determined Flammability (solid, gas) Non-flammable.

Upper/lower flammability or

Lower: Not determined explosive limits **Upper:** Not determined

Not determined Vapor pressure Vapor density Not determined Relative density Not determined **Bulk density** 1,140 kg/m3

Solubility(ies) soluble in water

Partition coefficient: n-

octanol/water

Not determined

Not determined

Auto-ignition temperature

Viscosity

Dynamic: Not determined. Kinematic: Not determined.

Explosive properties Non-explosive. Oxidizing properties Oxidizer

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability The product is stable.

10.3 Possibility of hazardous

reactions

Hazardous reactions or instability may occur under certain

conditions of storage or use.

Conditions may include the following: contact with combustible materials Reactions may include the following: risk of causing or intensifying fire

The product has high resistance to detonation, but mixing

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with incompatible substances and/or heating under strong confinement can lead to explosive behaviour.

10.4 Conditions to avoid : Avoid contamination by any source including metals, dust

and organic materials.

10.5 Incompatible materials : Reactive or incompatible with the following materials:

alkalis, combustible materials, reducing materials, organic

materials, Acids

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredie nt name	Method	Species	Result	Exposure	References		
potassium nitrate	potassium nitrate						
	LD50 Oral	Rat	2,000 - 5,000 mg/kg	Not applicable.	CSR		
	LD50 Dermal	Rat	> 5,000 mg/kg	Not applicable.	CSR		
ammonium nitrate							
	OECD 401 LD50 Oral	Rat	2,950 mg/kg	Not applicable.	CSR		
	OECD 402 LD50 Dermal	Rat	> 5,000 mg/kg	Not applicable.	CSR		
disodium [[N,N'-eth	ylenebis[N-(carbox	ymethyl)gly	cinato]](4-)-N,N',C	O,O',ON,ON']man	ganate(2-)		
	LD50 Oral	Rat	> 5,000 mg/kg	Not applicable.	IUCLID		
	LD50 Dermal	Rat	> 5,000 mg/kg	Not applicable.	IUCLID		
boric acid							
	LD50 Oral	Rat	3,450 mg/kg	Not applicable.	IUCLID 5		
	LD50 Dermal	Rabbit	> 5,000 mg/kg	Not applicable.	IUCLID		

Conclusion/Summary : No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure	References
potassium nitrate				•	
	OECD 404 Skin	Rabbit	Non- irritating.		IUCLID 5
ammonium nitrate		•			
	OECD 405 Eyes	Rabbit	Irritant		CSR

Conclusion/Summary

Skin : No known significant effects or critical hazards.

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Eyes : Causes serious eye irritation.

Respiratory: No known significant effects or critical hazards.

Sensitization

Product/ingredient	Method	Species	Result	References
name				
ammonium nitrate				
	OECD 429	Mouse	Not sensitizing	
	Skin			

Conclusion/Summary

Skin: No known significant effects or critical hazards.Respiratory: No known significant effects or critical hazards.

Mutagenicity

Product/ingredient name	Method	Test detail	Result	References
ammonium nitrate				
	OECD 473	Mammalian Toxicity - Genotoxicity - In vitro Mammalian Chromosome Aberration Test or Mammalian Bone Marrow Chromosomal Abberation Test or Mammalian Erythrocyte Micronucleus Test In vitro	Negative	CSR
	OECD 471	Bacteria In vitro	Negative	IUCLID

Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary: No known significant effects or critical hazards.

Reproductive toxicity

Product/ingredient name	Method	Species	Result	Exposure	References
ammonium nitrate				•	
	OECD 422 Oral	Rat	Fertility effects- Negative Developmental- Negative NOAEL > 1500 mg/kg bw/day	28 days	CSR
boric acid					
	Oral	Rat	Fertility effects- Positive NOEL	3 weeks Repeated dose;	IUCLID 5

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Conclusion/Summary : Contains boron which may harm fertility, based on animal

data. Contains boron which may harm the unborn child,

based on animal data.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Inhalation : Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following

exposure.

Ingestion : Irritating to mouth, throat and stomach.

Skin contact: No known significant effects or critical hazards.

Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:No specific data.Ingestion:No specific data.Skin contact:No specific data.

Eye contact : Adverse symptoms may include the following: pain or

irritation, watering, redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

Product/ingredient	Method	Species	Result	Exposure	References
name					
ammonium nitrate					
	OECD 422 Chronic NOAEL Oral	Rat	256 mg/kg	28 days	CSR
	OECD 412 Sub-acute NOEC Inhalation	Rat	> 185 mg/m ³	2 weeks 5 hours per day	CSR

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

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Fertility effects : Contains boron which may harm fertility, based on animal

data.

Developmental effects : Contains boron which may harm the unborn child, based

on animal data.

Effects on or via lactation : No known significant effects or critical hazards.

Other effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingred	Method	Species	Result	Exposure	References
ient name					
potassium nitrate					
	OECD 203	Fish	> 100 mg/l	96 h	CSR
	Acute LC50				
	Fresh water				
	Acute EC50	Daphnia	490 mg/l	48 h	CSR
	Fresh water				
	Acute EC50	Algae	> 1,700 mg/l	240 h	CSR
	Fresh water				
ammonium nitrate	ammonium nitrate				
	Acute LC50	Fish	447 mg/l	48 h	CSR
	Fresh water				
	Acute EC50	Daphnia	490 mg/l	48 h	CSR
	Fresh water				
	Acute EC50	Algae	1,700 mg/l	10 d	CSR
	Salt water				
disodium [[N,N'-et	hylenebis[N-(carl	ooxymethyl)glycin	ato]](4-)-N,N',O,C)',ON,ON']manga	nate(2-)
	Acute LC50	Fish.	>= 1,000 mg/l	96 h	
	Acute EC50	Aquatic plants	649.3 mg/l	72 h	
boric acid					
	Acute LC50	Fish	> 100 mg/l	4 d	IUCLID
	Fresh water				
	Acute EC50	Daphnia	> 100 mg/l	2 d	IUCLID
	Fresh water				

Conclusion/Summary : No known significant effects or critical hazards.

12.2 Persistence and degradability

Conclusion/Summary: No known significant effects or critical hazards.

12.3 Bioaccumulative potential

Product/ingredient	LogPow	BCF	Potential
name			
disodium [[N,N'- ethylenebis[N- (carboxymethyl)glycinat o]](4-)-	-8.12	1.80	
N,N',O,O',ON,ON']mang anate(2-)			

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boric acid 0.175-1.09 Not applicable. low

Conclusion/Summary: No known significant effects or critical hazards.

12.4 Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with

jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
06 10 02*	wastes containing hazardous substances

Packaging

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Empty the bag by shaking to remove as much as possible of its contents. Empty bags may be disposed of as non-hazardous material or

returned for recycling.

Special precautions: This material and its container must be disposed of in a

safe way.

Care should be taken when handling emptied containers

that have not been cleaned or rinsed out.

Empty containers or liners may retain some product

residues.

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Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulation: ADR/RID	
14.1 UN number	1479
14.2 UN proper shipping name	OXIDIZING SOLID, N.O.S. (Potassium nitrate, Ammonium nitrate,)
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazards	No.
Additional information	
Hazard identification number	: 50
<u>Tunnel code</u>	: (E)

Regulation: ADN	
14.1 UN number	1479
14.2 UN proper shipping name	OXIDIZING SOLID, N.O.S. (Potassium nitrate, Ammonium nitrate,)
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazards	No.
Additional information	
<u>Danger code</u>	: Not applicable.

Regulation: IMDG	
14.1 UN number	1479
14.2 UN proper shipping name	OXIDIZING SOLID, N.O.S. (Potassium nitrate, Ammonium nitrate,)
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazards	No.

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Additional information

Marine pollutant : No.
Emergency schedules (EmS) : F-A, S-Q

Regulation: IATA	
14.1 UN number	1479
14.2 UN proper shipping name	OXIDIZING SOLID, N.O.S. (Potassium nitrate, Ammonium
	nitrate,)
14.3 Transport hazard class(es)	5.1
	5.1
14.4 Packing group	III
14.5 Environmental hazards	No.
Additional information	
Marine pollutant	: No.

14.6 Special precautions for

<u>user</u>

Transport within user's premises: Ensure that persons transporting the product know what to do in the event of

an accident or spillage.

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

Not applicable.

14.8 IMSBC

Bulk cargo shipping name : OXIDIZING SOLID, N.O.S. Class 5.1: Oxidizing material.

Group : E

Marpol V : Non-HME

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV: None of the components are listed.

<u>Substances of very high concern</u>: The following components are listed:

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
boric acid	Toxic to reproduction	Candidate	ED/30/2010	2010-06-18

EU Regulation (EC) No.

1907/2006 (REACH) Annex XVII

- Restrictions on the

manufacture, placing on the

: Applicable, Table 65.

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market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Europe inventory : All components are listed or exempted.

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

Potassium nitrate

Other regulations : This product is subject to Regulation (EU) 98/2013, all

suspicious transactions, disappearances and thefts should

be reported to the relevant authority.

National regulations

Biocidal products regulation : Not applicable.

Notes : To our knowledge no other country or state specific

regulations are applicable.

15.2 Chemical Safety

<u>Assessment</u>

Complete.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation

[Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

SGG = Segregation Group

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative

bw = Body weight

Key data sources : EU REACH ECHA/IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

Sphera Solutions Inc., 4777 Levy Street, St Laurent,

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Quebec HAR 2P9, Canada. Regulation (EC) No 1272/2008 Annex VI.

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

Classification	Justification
Ox. Sol. 3, H272	Expert judgment
Eye Irrit. 2, H319	Calculation method

Full text of abbreviated H statements

H272	May intensify fire; oxidizer.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.

Full text of classifications [CLP/GHS]

Ox. Sol. 3, H272	OXIDIZING SOLIDS - Category 3
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Repr. 1B, H360FD	TOXIC TO REPRODUCTION (Fertility, Unborn child) - Category
	1B

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.

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Annex to the extended Safety Data Sheet (eSDS) - Exposure Scenario/Safe Use Information:

Identification of the substance or mixture

Product definition : Mixture

Product name : Flower Fertilizer

Exposure Scenario/Safe Use Information

Exposure Scenarios are not attached for corrosive or irritant hazards, relevant information on safe use is included in section 8.

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