

Fertiactyl ST Dry

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/20/2019 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Fertiactyl ST Dry
 Product code : FSTDYR

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Agriculture

1.3. Supplier

Manufacturer

Timac Agro USA Inc.
 153 Angstadt Lane
 P.O. Box 888
 Reading, PA. 19607 - USA
 T 1-800-545-5474
info-fds@roullier.com

1.4. Emergency telephone number

Emergency number : USA POISON CONTROL : 1-800-222-1222

Country	Official advisory body	Address	Emergency number	Comment
	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222	
Americas	3E		+1-760-476-3962 (Access code : 333021)	(24/7)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Carcinogenicity, Category 1A H350 May cause cancer (Inhalation).

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H350 - May cause cancer (Inhalation).

Precautionary statements (GHS US) :

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P308+P313 - If exposed or concerned: Get medical advice/attention.
- P405 - Store locked up.
- P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Fertiactyl ST Dry

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Quartz (SiO ₂), respirable dust <10 µm	(CAS-No.) 14808-60-7	0.1 - 0.25	Carc. 1A, H350 STOT RE 1, H372

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Prompt treatment is essential to minimize damage. Suspected of causing cancer.
First-aid measures after inhalation	: Take victim to fresh air, in a quiet place in an half laying position and urgently take medical advice. If possible show him this sheet. Failing this, show him the packaging or label.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.
-----------------------------------	--

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: All extinguishing media allowed. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Specific hazards arising from the chemical

Fire hazard	: Non oxidizing. Not flammable.
Reactivity	: Reacts with : strong oxidants and strong acids.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. EN 469.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses. Relevant water authorities should be notified of any large spillage to water course or drain.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Avoid dust formation.
------------------	--

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Do not breathe dust. Evacuate unnecessary personnel. Mechanically ventilate the spillage area. Evacuate area. Do not get in eyes, on skin, or on clothing.

6.1.2. For emergency responders

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Stop leak if safe to do so. Evacuate unnecessary personnel.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Clean up immediately by sweeping or vacuum. Minimise generation of dust. Collect up the product and place it in a spare container suitably labelled.

Fertiactyl ST Dry

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid dust formation. Use personal protective equipment as required. Do not breathe dust. Provide adequate ventilation to minimize dust and/or vapour concentrations.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. The floor of the depot should be impermeable and designed to form a water-tight basin. Comply with applicable regulations.

Storage conditions : Store in dry, cool, well-ventilated area. Protect from moisture. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of reach of children.

Incompatible products : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Storage temperature : 4 - 30 °C Store at ambient temperature

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

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

Storage area : Store away from heat. Store in a well-ventilated place.

Special rules on packaging : Keep only in original container. Store in a closed container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quartz (SiO ₂), respirable dust <10 µm (14808-60-7)		
ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	0.05 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

Wear suitable protective clothing

Condition	Material
Good resistance: Excellent resistance:	Butyl rubber, Nitrile rubber/PVC, Latex

Hand protection:

protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves, Reusable gloves	Nitrile rubber (NBR), Butyl rubber, Polyvinylchloride (PVC)			

Eye protection:

Safety glasses. EN 166

Type	Use	Characteristics
Safety goggles	Droplet	With side shields

Skin and body protection:

Fertiactyl ST Dry

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin protection appropriate to the conditions of use should be provided

Respiratory protection:

Wear respiratory protection.

Device	Filter type	Condition
Dust mask	Type P3	High dust protection



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: dark grey
Odour	: Odourless
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: In case of excessive dust production : Dust may form flammable and explosive mixture with air.
Oxidising properties	: Non oxidizing.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with : strong oxidants and strong acids.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7. Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures. Direct sunlight.

10.5. Incompatible materials

Strong acids. Oxidation agents.

Fertiactyl ST Dry

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
(Based on available data, the classification criteria are not met)

Fertiactyl ST Dry

Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
------------------------	---

Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)

Serious eye damage/irritation : Not classified
(Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)

Respiratory or skin sensitisation : Not classified
(Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)No study has been carried out for the moment on this mixture.

Carcinogenicity : May cause cancer (Inhalation).

Quartz (SiO₂), respirable dust <10 µm (14808-60-7)

IARC group	1 - Carcinogenic to humans
------------	----------------------------

Reproductive toxicity : Not classified
(Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Specific target organ toxicity (single exposure) : Not classified
(Based on available data, the classification criteria are not met)

Fertiactyl ST Dry

Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
------------------------	---

Specific target organ toxicity (repeated exposure) : Not classified
(Based on available data, the classification criteria are not met)

Fertiactyl ST Dry

Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
------------------------	---

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)

Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.

Fertiactyl ST Dry

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information

12.1. Toxicity

- Ecology - general : Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.
- Ecology - water : Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

12.2. Persistence and degradability

Fertiactyl ST Dry	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Fertiactyl ST Dry	
Bioaccumulative potential	Bioaccumulation unlikely. No studies of longer duration have been conducted at this time.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

- Other adverse effects : May cause eutrophication at very low concentration.
- Effect on the global warming : No known effects from this product.
- GWPmix comment : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Disposal methods

- Regional legislation (waste) : Disposal must be done according to official regulations.
- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Product/Packaging disposal recommendations : Discharging into rivers and drains is forbidden.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

Fertiactyl ST Dry

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Quartz (SiO₂), respirable dust <10 µm (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Fertiactyl ST Dry

Ensure all national/local regulations are observed

Quartz (SiO₂), respirable dust <10 µm (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-statements:

H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration
DNEL	Derived-No Effect Level
EC50	Median effective concentration
SDS	Safety Data Sheet
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration

NFPA health hazard

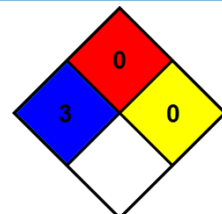
: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Fertiactyl ST Dry

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hazard Rating

Health : 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures

* - Chronic (long-term) health effects may result from repeated overexposure

Flammability

: 0 Minimal Hazard - Materials that will not burn

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection

: I,y

I - Safety glasses, Gloves, Dust & vapor respirator

y - Full face respirator

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

SECTION 1: Identification

1.1. Identification

Product form : Mixtures
 Trade name : Fertiactyl ST
 Product code : FSTUSA

1.2. Recommended use and restrictions on use

Recommended use : Fertilizers

1.3. Supplier

Manufacturer

TIMAC Agro USA, INC
 P.O. Box 888 - Route 724 & I-176
 READING, - USA
 T 1-800-545-5474
info-fds@roullier.com

1.4. Emergency telephone number

Emergency number : USA POISON CONTROL : 1-800-222-1222

Country	Official advisory body	Address	Emergency number	Comment
	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Salicylic Acid / Benzoic acid, 2-hydroxy-	(CAS-No.) 69-72-7	0.01 - 0.1	Eye Dam. 1, H318 Acute Tox. 4 (Oral), H302
Glycine, N,N-bis(carboxymethyl)-	(CAS-No.) 139-13-9	0.01 - 0.1	Eye Irrit. 2, H319 Carc. 2, H351

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
 First-aid measures after inhalation : Remove the victim into fresh air. If you feel unwell, seek medical advice.
 First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If on skin and if skin irritation occurs, seek medical advice and attention.
 First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Fertiactyl ST

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : All extinguishing media allowed. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Reactivity : Reacts with : strong oxidants and strong acids.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. EN 469.
Other information : Do not allow run-off from fire fighting to enter drains or water courses. Relevant water authorities should be notified of any large spillage to water course or drain.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Do not breathe dust. Evacuate unnecessary personnel. Mechanically ventilate the spillage area.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Stop leak if safe to do so. Evacuate unnecessary personnel.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Clean up immediately by sweeping or vacuum. Minimize generation of dust. Collect up the product and place it in a spare container suitably labelled.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid dust formation. Use personal protective equipment as required.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. The floor of the depot should be impermeable and designed to form a water-tight basin. Comply with applicable regulations.
Storage conditions : Store in dry, cool, well-ventilated area. Protect from moisture. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of reach of children.
Incompatible products : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
Storage temperature : 4 - 30 °C Store at ambient temperature
Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

Fertiactyl ST

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.
Storage area : Store away from heat. Store in a well-ventilated place.
Special rules on packaging : Keep only in original container. Store in a closed container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Salicylic Acid / Benzoic acid, 2-hydroxy- (69-72-7)

Not applicable

Glycine, N,N-bis(carboxymethyl)- (139-13-9)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses.

Hand protection:

protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves, Reusable gloves	Nitrile rubber (NBR), Butyl rubber, Polyvinylchloride (PVC)			

Eye protection:

Safety glasses. EN 166

Type	Use	Characteristics
Safety goggles	Droplet	With side shields

Skin and body protection:

Skin protection appropriate to the conditions of use should be provided

Respiratory protection:

Do not breathe aerosol. Vapours or aerosols :
Dust/aerosol mask with filter type P2



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Brown
Odour : characteristic
Odour threshold : No data available
pH : 7.32
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Fertiactyl ST

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.036 kg/l
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Not determined. In case of excessive dust production : Dust may form flammable and explosive mixture with air.
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with : strong oxidants and strong acids.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Direct sunlight. Gel.

10.5. Incompatible materials

Strong acids. Oxidation agents.

10.6. Hazardous decomposition products

Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
(Based on available data, the classification criteria are not met)

Fertiactyl ST	
Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Salicylic Acid / Benzoic acid, 2-hydroxy- (69-72-7)	
LD50 oral rat	891 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	1h 0.9 mg/l
ATE US (oral)	891.000 mg/kg bodyweight
Glycine, N,N-bis(carboxymethyl)- (139-13-9)	
LD50 oral rat	> 6400 mg/kg bodyweight
LD50 dermal rat	> 10000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	4.25 mg/l (OECD 403 method)

Fertiactyl ST

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation) pH: 7.32
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation) pH: 7.32
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)No study has been carried out for the moment on this mixture.
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation. Contains a substance which is (possibly) carcinogenic)

Glycine, N,N-bis(carboxymethyl)- (139-13-9)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)

Fertiactyl ST	
Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
--	--

Fertiactyl ST	
Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Salicylic Acid / Benzoic acid, 2-hydroxy- (69-72-7)	
NOAEL (oral, rat, 90 days)	45.4 mg/kg bodyweight/day

Glycine, N,N-bis(carboxymethyl)- (139-13-9)	
NOAEL (dermal, rat/rabbit, 90 days)	37 - 50 mg/kg bodyweight/day

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)
-------------------	---

Fertiactyl ST

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information

12.1. Toxicity

- Ecology - general : Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.
- Ecology - water : Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

Salicylic Acid / Benzoic acid, 2-hydroxy- (69-72-7)	
LC50 fish 1	96h 1380 mg/l Pimephales promelas
EC50 Daphnia 1	48h 870 mg/l Daphnia magna (NF EN ISO 6341)
EC50 other aquatic organisms 1	72h 100 mg/l Desmodesmus subspicatus
ErC50 (algae)	72h - 100 mg/l
NOEC (chronic)	21d 10 mg/l Daphnia magna (NF EN ISO 6341)
Additional ecotoxicological information	Data sources : Safety Data Sheet Supplier

Glycine, N,N-bis(carboxymethyl)- (139-13-9)	
LC50 fish 1	114 mg/l Pimephales promelas
EC50 Daphnia 1	560 - 1000 mg/l Daphnia magna (NF EN ISO 6341)
NOEC (chronic)	> 54 mg/l Pimephales promelas
NOEC chronic crustacea	147d 9.3 mg/l Gammarus pseudolimnaeus

12.2. Persistence and degradability

Fertiactyl ST	
Persistence and degradability	Not established.

Salicylic Acid / Benzoic acid, 2-hydroxy- (69-72-7)	
Persistence and degradability	Readily biodegradable. Data sources : Safety Data Sheet Supplier.

Glycine, N,N-bis(carboxymethyl)- (139-13-9)	
Persistence and degradability	Readily biodegradable, according to appropriate OECD test.

12.3. Bioaccumulative potential

Fertiactyl ST	
Bioaccumulative potential	Bioaccumulation unlikely. No studies of longer duration have been conducted at this time.

Salicylic Acid / Benzoic acid, 2-hydroxy- (69-72-7)	
Log Pow	2
Bioaccumulative potential	Slightly or not bioaccumulative.

12.4. Mobility in soil

Salicylic Acid / Benzoic acid, 2-hydroxy- (69-72-7)	
Ecology - soil	Very mobile. Safety Data Sheet Supplier.

12.5. Other adverse effects

- Other adverse effects : May cause eutrophication at very low concentration.
- Effect on the global warming : No known effects from this product.
- GWPmix comment : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Disposal methods

- Waste treatment methods : Dispose of in accordance with relevant local regulations. Remove to an authorized waste treatment plant.
- Sewage disposal recommendations : Do not allow to enter drains or water courses.
- Product/Packaging disposal recommendations : Do not allow to enter drains or water courses. Dispose in a safe manner in accordance with local/national regulations.

Fertiactyl ST

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Glycine, N,N-bis(carboxymethyl)-	CAS-No. 139-13-9	0.01 - 0.1%
----------------------------------	------------------	-------------

15.2. International regulations

CANADA

Salicylic Acid / Benzoic acid, 2-hydroxy- (69-72-7)

Listed on the Canadian DSL (Domestic Substances List)

Glycine, N,N-bis(carboxymethyl)- (139-13-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Fertiactyl ST

Ensure all national/local regulations are observed

Glycine, N,N-bis(carboxymethyl)- (139-13-9)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)

15.3. US State regulations

Glycine, N,N-bis(carboxymethyl)- (139-13-9)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	100

SECTION 16: Other information

Fertiactyl ST

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-statements:

H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H351	Suspected of causing cancer

Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration
DNEL	Derived-No Effect Level
EC50	Median effective concentration
SDS	Safety Data Sheet
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard

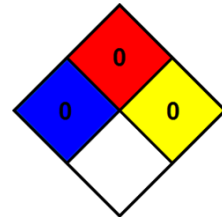
: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product