

SECTION 1: Identification

1.1. Identification

Product form : Mixtures
 Product name : FERTIACTYL GZ
 Product code : FYLGZUSA

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

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

Skin corrosion/irritation, Category 2 H315 Causes skin irritation
 Serious eye damage/eye irritation, Category 2 H319 Causes serious eye irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation
 H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P280 - Wear face shield, protective clothing, protective gloves
 P302+P352 - If on skin: Wash with plenty of soap and water
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337+P313 - If eye irritation persists: Get medical advice/attention

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

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Name	Product identifier	%	GHS-US classification
potassium hydroxide	(CAS-No.) 1310-58-3	1 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

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 : Prompt treatment is essential to minimize damage.
- First-aid measures after inhalation : Move to fresh air in case of accidental inhalation. Seek medical attention if ill effect develops.
- First-aid measures after skin contact : Wash with water and soap as a precaution. If case of redness or irritation, call a doctor.
- First-aid measures after eye contact : Wash immediately with plenty water (during 20 minutes), also under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult an eye specialist. If possible show him this sheet. Failing this, show him the packaging or label.
- First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. If swallowed, seek medical advice immediately and show this container or label.

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

- Symptoms/effects : (see section(s) : 2.1/2.3).

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 : water, carbon dioxide (CO₂), powder and foam. Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

- Fire hazard : Non oxidizing material according to EC criteria.
- Explosion hazard : Not explosive.
- 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.
- 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 : Remove ignition sources. Evacuate area.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Do not get in eyes, on skin, or on clothing. Do not breathe vapours. Evacuate unnecessary personnel. Mark the danger area. Ventilate spillage area. Keep upwind. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

- Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. 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 : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Pump up the product into a suitably labelled spare container. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

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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 good ventilation in process area to prevent formation of vapour. Do not breathe vapours. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. 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 : Protect from sunlight. Store in a well-ventilated place. Store closed containers with closure in upper position. 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. Protect from freezing.

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.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

potassium hydroxide (1310-58-3)

ACGIH	ACGIH STEL (mg/m ³)	2 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.

Environmental exposure controls : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses.

Materials for protective clothing:

Wear suitable protective clothing

Hand protection:

In case of repeated or prolonged contact wear gloves. Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

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

Eye protection:

Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product. EN 166

Type	Use	Characteristics
Safety glasses	Droplet	With side shields

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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



Other information:

See Heading 7 : 7.1. Precautions for safe handling.

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	: 11
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
Density	: 1.21 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	: Product is not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.

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 dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Direct sunlight. Gel.

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10.5. Incompatible materials

Strong acids. Oxidation agents.

10.6. Hazardous decomposition products

Sulphur dioxide. 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 GZ	
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

potassium hydroxide (1310-58-3)	
LD50 oral rat	333 (333 - 388) mg/l (OECD 425 method)
ATE US (oral)	500.000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.
pH: 11

Serious eye damage/irritation : Causes serious eye irritation.
pH: 11

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 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

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)

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 GZ	
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 GZ	
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

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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)

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.

potassium hydroxide (1310-58-3)

NOEC (acute)	24h 28 mg/l OECD SIDS
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12.2. Persistence and degradability

FERTIACTYL GZ

Persistence and degradability	Not established.
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potassium hydroxide (1310-58-3)

Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

FERTIACTYL GZ

Bioaccumulative potential	Not established. Bioaccumulation unlikely.
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potassium hydroxide (1310-58-3)

Bioaccumulative potential	Low bioaccumulation potential.
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12.4. Mobility in soil

FERTIACTYL GZ

Ecology - soil	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.
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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.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

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Air transport

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

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

potassium hydroxide (1310-58-3)	
CERCLA RQ	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date : 07/10/2017

Data sources : Section 1.2, 8.1, 11 & 12 are based on components' Chemical Safety Report and/or datas from components' supplier.

Full text of H-statements:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation

Abbreviations and acronyms:

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ATE	Acute Toxicity Estimate
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
OECD	Organisation for Economic Co-operation and Development
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard

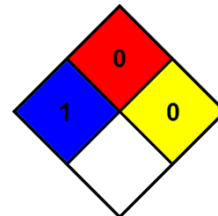
: 1 - Materials that, under emergency conditions, can cause significant irritation.

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

: 1 Slight Hazard - Irritation or minor reversible injury possible

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

: B
B - Safety glasses, Gloves

Indication of changes:

Section	Changed item	Change	Comments
	Display TSCA summary in 15.1	Added	
	Display SARA 313 summary in 15.1	Added	
	Display California Proposition 65 summary in 15.3	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	NFPA reactivity	Added	
	NFPA health hazard	Added	
	NFPA fire hazard	Added	
	Additional information	Added	
	Additional information	Added	
	Additional information	Added	
	Personal protection	Added	
	Physical	Added	
	Health	Added	

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	Flammability	Added	
	Protective equipment	Added	
	Emergency procedures	Added	
	Protective equipment	Modified	
	Possibility of hazardous reactions	Added	
	Other medical advice or treatment	Added	
	Precautionary statements (GHS-US)	Added	
	Signal word (GHS-US)	Added	
	Hazard pictograms (GHS-US)	Added	
	Hazard statements (GHS-US)	Added	
	Supersedes	Added	
	Revision date	Added	
	Other information	Added	
	Methods for cleaning up	Modified	
	For containment	Modified	
	Environmental precautions	Modified	
	Emergency procedures	Added	
	General measures	Modified	
	Additional information	Modified	
	Reference to other sections (8, 13)	Modified	
	Other adverse effects	Modified	
	Incompatible materials	Modified	
	Hazardous decomposition products	Modified	
	Conditions to avoid	Modified	
	Additional information	Modified	
	Symptoms/effects	Added	
	First-aid measures after inhalation	Modified	
	First-aid measures general	Modified	
	First-aid measures after ingestion	Added	
	First-aid measures after eye contact	Modified	
	First-aid measures after skin contact	Modified	
	Product form	Added	
	Oxidising properties	Added	
	Explosive properties	Modified	
	Density	Modified	
	pH	Modified	
2.1	GHS-US classification	Added	
3	Composition/information on ingredients	Modified	
5.1	Unsuitable extinguishing media	Added	
5.1	Suitable extinguishing media	Modified	
5.2	Fire hazard	Modified	
5.2	Explosion hazard	Modified	
5.3	Other information	Modified	
5.3	Protection during firefighting	Modified	
7.1	Hygiene measures	Modified	
7.1	Precautions for safe handling	Added	
7.2	Technical measures	Modified	
7.2	Storage conditions	Added	
7.2	Storage area	Removed	
7.2	Heat and ignition sources	Added	
7.2	Storage temperature	Modified	

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7.2	Incompatible products	Modified	
7.2	Incompatible materials	Removed	
7.2	Prohibitions on mixed storage	Added	
7.2	Special rules on packaging	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
8.2	Other information	Added	
8.2	Environmental exposure controls	Added	
8.2	Appropriate engineering controls	Modified	
8.2	Materials for protective clothing	Added	
8.2	Skin and body protection	Modified	
12.1	Ecology - water	Modified	
12.1	Ecology - general	Modified	
12.2	Persistence and degradability	Modified	
12.3	Bioaccumulative potential	Modified	
12.4	Ecology - soil	Modified	
16	Abbreviations and acronyms	Added	
16	Data sources	Added	
16	Other information	Removed	

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