

Version: Revision date:

Date of issue:

Supersedes:

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

1.1. Product identifier

Product form : Mixture
Product code : M865722IND
Product group : Trade product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Supplier's details

JR Simplot Company
P.O. Box 70013
83707 Boise, ID
T 1-208-336-2110

1.5. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Health hazards : Skin corrosion/irritation, Category 2
: Serious eye damage/eye irritation, Category 2B
: Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

2.2. Label elements

Hazard pictograms (GHS-ID) :



Signal word (GHS-ID) :

Warning

Hazard statements (GHS-ID) :

Causes skin irritation (H315)
Causes eye irritation (H320)
May cause respiratory irritation (H335)

Precautionary statements (GHS-ID)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P264 - Wash hands, forearms and face thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of water
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER or doctor if you feel unwell
P321 - Specific treatment (see supplemental first aid instruction on this label)
P332+P313 - If skin irritation occurs: Get medical attention
P337+P313 - If eye irritation persists: Get medical attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

GAL-Xe ONE 10-26-11 Forestry

Safety Data Sheet

According to the Ministry of Industry No.23/M-IND/PER/4/2013

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Monoammonium Phosphate	(CAS No) 7722-76-1	
ammonium nitrate	(CAS No) 6484-52-2	
potassium sulfate	(CAS No) 7778-80-5	
potassium chloride	(CAS No) 7447-40-7	
Polymer Coating		
Calcium Phosphate	(CAS No) 7758-23-8	
diammoniumhydrogenphosphate	(CAS No) 7783-28-0	
Pacmix	(CAS No) None	
Wax	(CAS No) 64771-72-8	
Proprietary		

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.
Inhalation	: Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Call a poison center or a doctor if you feel unwell.
Skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical attention.
Eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Irritation.
Symptoms/injuries after eye contact	: Causes eye irritation. Mild eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Sand. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
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GAL-Xe ONE 10-26-11 Forestry

Safety Data Sheet

According to the Ministry of Industry No.23/M-IND/PER/4/2013

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Recover mechanically the product. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

potassium sulfate (7778-80-5)

United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³
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Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

GAL-Xe ONE 10-26-11 Forestry

Safety Data Sheet

According to the Ministry of Industry No.23/M-IND/PER/4/2013

8.3. Appropriate engineering controls

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

8.4. Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection : Wear protective gloves
Eye protection : Chemical goggles or safety glasses. Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear appropriate mask
Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : Colourless
Odour : characteristic
Odour threshold : No additional information available
pH : No additional information available
Relative evaporation rate (butylacetate=1) : No additional information available
Melting point : No additional information available
Freezing point : Not applicable
Boiling point : No additional information available
Flash point : Not applicable
Auto-ignition temperature : Not applicable
Decomposition temperature : No additional information available
Flammability (solid, gas) : Non flammable.
Vapour pressure : No additional information available
Relative vapour density at 20 °C : No additional information available
Relative density : Not applicable
Solubility : No additional information available
Log Pow : No additional information available
Viscosity : No additional information available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No additional information available
Explosive properties : No additional information available
Oxidising properties : No additional information available
Percent Solids : No additional information available
Evaporation rate : No additional information available
Explosive limits : Not applicable

SECTION 10: Stability and reactivity

Chemical stability : Not established.
Conditions to avoid : Direct sunlight. Extremely high or low temperatures.
Hazardous decomposition products : fume. Carbon monoxide. Carbon dioxide.
Incompatible materials : Strong acids. Strong bases.
Possibility of hazardous reactions : Not established.
Reactivity : The product is non-reactive under normal conditions of use, storage and transport

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ammonium nitrate (6484-52-2)

LD50 oral rat	4820 mg/kg (Rat)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)

GAL-Xe ONE 10-26-11 Forestry

Safety Data Sheet

According to the Ministry of Industry No.23/M-IND/PER/4/2013

Monoammonium Phosphate (7722-76-1)	
LD50 oral rat	5750 mg/kg (Rat)
LD50 dermal rat	> mg/kg
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)

Calcium Phosphate (7758-23-8)	
LD50 oral rat	17500 mg/kg (Rat; Literature)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature)

potassium sulfate (7778-80-5)	
LD50 oral rat	6600 mg/kg (Rat)

potassium chloride (7447-40-7)	
LD50 oral rat	2600 mg/kg (Rat)

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
Other information	: Avoid release to the environment.

ammonium nitrate (6484-52-2)	
LC50 fish 1	74 mg/l (48 h; Cyprinus carpio; Lethal)
LC50 fish 2	800 mg/l (3.9 h; Pisces)
EC50 Daphnia 1	555 mg/l (Daphnia magna)
Log Pow	-3.1
TLM fish 1	100 - 1000,96 h; Pisces
TLM other aquatic organisms 1	100 - 1000,96 h
Threshold limit algae 1	83 mg/l (Scenedesmus quadricauda; Growth rate)

Monoammonium Phosphate (7722-76-1)	
LC50 fish 1	155 ppm (96 h; Pimephales promelas)

diammoniumhydrogenphosphate (7783-28-0)	
LC50 fish 1	155 ppm (96 h; Pimephales promelas)
TLM fish 1	100 - 1000,96 h; Pisces
TLM other aquatic organisms 1	100 - 1000,96 h

potassium sulfate (7778-80-5)	
LC50 fish 1	1692.4 mg/l (96 h; Alburnus alburnus)
LC50 fish 2	653 - 796 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)

GAL-Xe ONE 10-26-11 Forestry

Safety Data Sheet

According to the Ministry of Industry No.23/M-IND/PER/4/2013

potassium sulfate (7778-80-5)	
EC50 Daphnia 1	890 mg/l (48 h; Daphnia magna; Static system)
EC50 Daphnia 2	1180 mg/l (96 h; Crustacea)
TLM fish 1	3550 ppm (96 h; Lepomis sp.)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit algae 1	2900 mg/l (72 h; Scenedesmus subspicatus)

potassium chloride (7447-40-7)	
LC50 fish 1	920 mg/l (96 h; Gambusia affinis; Static system)
LC50 fish 2	2010 mg/l (96 h; Lepomis macrochirus; Static system)
EC50 Daphnia 1	630 mg/l (48 h; Ceriodaphnia dubia)
EC50 Daphnia 2	660 mg/l (48 h; Daphnia magna)
Log Pow	-0.46 (Estimated value)
Threshold limit algae 1	850 mg/l (72 h; Scenedesmus subspicatus)
Threshold limit algae 2	> 100 mg/l (72 h; Scenedesmus subspicatus; GLP)

12.2. Persistence and degradability

GAL-Xe ONE 10-26-11 Forestry	
Persistence and degradability	Not established.

ammonium nitrate (6484-52-2)	
Persistence and degradability	Biodegradable in water. Biodegradable in the soil. Not established.

Monoammonium Phosphate (7722-76-1)	
Persistence and degradability	Biodegradability in water: no data available. Not established.

diammoniumhydrogenphosphate (7783-28-0)	
Persistence and degradability	Biodegradability in water: no data available. Not established.

Calcium Phosphate (7758-23-8)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

potassium sulfate (7778-80-5)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

potassium chloride (7447-40-7)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Pacmix (None)	
Persistence and degradability	Not established.

Wax (64771-72-8)	
Persistence and degradability	Not established.

GAL-Xe ONE 10-26-11 Forestry

Safety Data Sheet

According to the Ministry of Industry No.23/M-IND/PER/4/2013

Proprietary	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

GAL-Xe ONE 10-26-11 Forestry	
Bioaccumulative potential	Not established.

ammonium nitrate (6484-52-2)	
Log Pow	See section 12.1 on ecotoxicology.
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.

Monoammonium Phosphate (7722-76-1)	
Bioaccumulative potential	Not bioaccumulative. Not established.

diammoniumhydrogenphosphate (7783-28-0)	
Bioaccumulative potential	No bioaccumulation data available. Not established.

Calcium Phosphate (7758-23-8)	
Bioaccumulative potential	No bioaccumulation data available. Not established.

potassium sulfate (7778-80-5)	
Bioaccumulative potential	Not bioaccumulative. Not established.

potassium chloride (7447-40-7)	
Log Pow	See section 12.1 on ecotoxicology.
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.

Pacmix (None)	
Bioaccumulative potential	Not established.

Wax (64771-72-8)	
Bioaccumulative potential	Not established.

Proprietary	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

GAL-Xe ONE 10-26-11 Forestry	
Mobility in soil	No additional information available

ammonium nitrate (6484-52-2)	
Log Pow	See section 12.1 on ecotoxicology.

potassium chloride (7447-40-7)	
Log Pow	See section 12.1 on ecotoxicology.

12.5. Other adverse effects

Ozone	: Not classified
GWPmix comment	: No known effects from this product.
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment

GAL-Xe ONE 10-26-11 Forestry

Safety Data Sheet

According to the Ministry of Industry No.23/M-IND/PER/4/2013

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. Proper Shipping Name

Proper Shipping Name (UN RTDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

UN RTDG
Transport hazard class(es) (UN RTDG) : Not applicable
IMDG
Transport hazard class(es) (IMDG) : Not applicable
IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (UN RTDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- **UN RTDG**
No data available
- **IMDG**
No data available
- **IATA**
No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

No additional information available

15.2. International agreements

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
R-phrases:
S-phrases:

15.3. Chemical inventory status

Australia AICS : No
Canada DSL : No
Canada NDSL : No
China IECSC : No
EU EINECS : No
EU ELINCS : No
EU NLP : No
Korea ECL : No
US TSCA : No

SECTION 16: Other information

Other information : None.

GAL-Xe ONE 10-26-11 Forestry

Safety Data Sheet

According to the Ministry of Industry No.23/M-IND/PER/4/2013

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