SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Best TRIgreen 22-2-11 with GAL-Xe ONE and X-Cote
Product code	: M75377
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
No additional information available	
1.3. Details of the supplier of the safety	data sheet
JR Simplot Company P.O. Box 70013 Boise, ID 83707 T 1-208-336-2110	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC 1-800-424-9300
SECTION 2: Hazard(s) identification	
GHS-US classification	
Serious eye damage/eye irritation, Category 2B	H320
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labelling	
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H320 - Causes eye irritation
Precautionary statements (GHS-US)	 P264 - Wash hands, forearms and face thoroughly after handling 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 attention
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/information	on on ingredients
3.1. Substance	
Not applicable	
3.2. Mixture	

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Name	Product identifier	%	GHS-US classification
ammonium sulfate (7783-20-2)	(CAS No) 7783-20-2		Not classified
urea (57-13-6)	(CAS No) 57-13-6		Eye Irrit. 2B, H320
potassium chloride	(CAS No) 7447-40-7		Not classified
Monoammonium Phosphate	(CAS No) 7722-76-1		Eye Irrit. 2B, H320 STOT SE 3, H335
potassium sulfate	(CAS No) 7778-80-5		Not classified
Iron Oxysulfate			Eye Irrit. 2B, H320
Polymer Coating			Not classified
Sand			STOT SE 3, H335
sulfur	(CAS No) 7704-34-9		Skin Irrit. 2, H315 Eye Irrit. 2B, H320
wax (paraffins- petroleum)	(CAS No) 64771-72-8		Not classified

Full text of H-statements: see section 16

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).
First-aid measures after inhalation	: Allow breathing of fresh air. Allow the victim to rest.
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.
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.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/injuries after eye contact	: Causes eye irritation.
4.3. Indication of any immediate medic	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the s	ubstance or mixture
No additional information available	
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.
SECTION 6: Accidental release mea	2511765
	equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.
Emergency procedures	. L'acuale d'intecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Not	ify authorities if liquid enters sewers or public waters.
6.3. Methods and material for containm	nent and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
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6.4. Reference to othe	er sections	
See Heading 8. Exposure co	ontrols and personal protection.	
SECTION 7: Handling	and storage	
7.1. Precautions for s	safe handling	
Precautions for safe handlin	0	posed areas with mild soap and water before eating, drinking or g work. Provide good ventilation in process area to prevent formation
7.2. Conditions for sa	afe storage, including any incompatibilities	
Storage conditions	: Keep only in the original conclused when not in use.	ontainer in a cool, well ventilated place away from : Keep container
Incompatible products	: Strong bases. Strong acid	
Incompatible materials	: Sources of ignition. Direct	sunlight.
SECTION 8: Exposur	e controls/personal protection	
8.1. Control parameter	ers	
Monoammonium Phosph	nate (7722-76-1)	
Not applicable		
potassium sulfate (7778-	80-5)	
Not applicable		
Iron Oxysulfate		
Not applicable		
potassium chloride (7447	7-40-7)	
Not applicable		
sulfur (7704-34-9)		
ACGIH	ACGIH TWA (mg/m³)	3 mg/m³
Not applicable		
wax (paraffins- petroleun	n) (64771-72-8)	
Not applicable		
Polymer Coating		
Not applicable		
urea (57-13-6) (57-13-6)		
Not applicable		
ammonium sulfate (7783	-20-2) (7783-20-2)	
ammonium sulfate (7783 Not applicable	-20-2) (7783-20-2)	
	-20-2) (7783-20-2)	

ty glasses.
e during use.
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SECTION 9: Physical and che	mical properties	
9.1. Information on basic physic	Information on basic physical and chemical properties	
Physical state	: Solid	
Appearance	: Granules.	
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Colour	: Multi-colored
Odour	 There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour(s): Odourless Pure substance is odourless Commercial/unpurified substance: Unpleasant odour Mild odour Petroleum-like odour In moist air: Ammonia odour
Odour threshold	: No data available
рН	: 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
Explosive limits	: No data available
Explosive properties	: No data available
Dxidising properties	: No data available
/apour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 58-62 LBS/FT3
Solubility	 Slowly soluble, coating insoluble. Water: Solubility in water of component(s) of the mixture : Monoammonium Phosphate: 38 g/100ml • potassium sulfate: 11 g/100ml • potassium chloride: 34 g/100ml • sulfur: insoluble • wax (paraffins- petroleum): insoluble • ammonium sulfate (7783-20-2): 77 g/100ml • urea (57-13-6): 100 g/100ml
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
/iscosity	: No data available
/iscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivi	ty
10.1. Reactivity	
No additional information available	
10.2 Chemical stability	

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high temperatures. Direct sunlight.

10.5. Incompatible materials

Oxidizing agent. Prolonged contact may cause oxidation of unprotected metals. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Extremely high temperatures. The product may reach melting point and decompose to release NH3, SOx, POx, or CN. fume. Carbon monoxide. Carbon dioxide.

SECTION	SECTION 11: Toxicological information		
11.1.	Information on toxicological effects		

: Not classified

Monoammonium Phosphate (7722-76-1)		
LD50 oral rat	5750 mg/kg (Rat)	
LD50 dermal rat	> mg/kg	
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)	
ATE US (oral)	5750.000 mg/kg bodyweight	
potassium sulfate (7778-80-5)		
LD50 oral rat	6600 mg/kg (Rat)	
ATE US (oral)	6600.000 mg/kg bodyweight	
potassium chloride (7447-40-7)		
LD50 oral rat	2600 mg/kg (Rat)	
ATE US (oral)	2600.000 mg/kg bodyweight	
sulfur (7704-34-9)		
LD50 oral rat	> 5000 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	> 9.23 mg/l/4h (Rat)	
wax (paraffins- petroleum) (64771-72-8)		
LD50 oral rat	> 5000 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rat) > 2000 mg/kg (Rabbit)	
urea (57-13-6) (57-13-6)		
LD50 oral rat	8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rat	> 3200 mg/kg (Rat; Literature study)	
LD50 dermal rabbit	> 21000 mg/kg (Rabbit; Literature study)	
ATE US (oral)	8471.000 mg/kg bodyweight	
ammonium sulfate (7783-20-2) (7783-20-2)		
LD50 oral rat	2840 mg/kg (Rat)	
LD50 dermal rat	> 2000 mg/kg	
ATE US (oral)	2840.000 mg/kg bodyweight	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes eye irritation.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
.	Based on available data, the classification criteria are not met	
Specific target organ toxicity (single exposure)	: Not classified	
- - - - - - - - - -		
Specific target organ toxicity (repeated exposure)	: Not classified	
CAPOSULE)		
Aspiration hazard	: Not classified	
Potential adverse human health effects and	: Based on available data, the classification criteria are not met.	
symptoms		
Symptoms/injuries after eye contact	: Causes eye irritation.	
SECTION 12: Ecological information		

Monoammonium Phosphate (7722-76-1)		
LC50 fish 1	155 ppm (96 h; Pimephales promelas)	
potassium sulfate (7778-80-5)		
LC50 fish 1	1692.4 mg/l (96 h; Alburnus alburnus)	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)	
EC50 Daphnia 1	890 mg/l (48 h; Daphnia magna; Static system)	
LC50 fish 2	653 - 796 mg/l (96 h; Lepomis macrochirus)	
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)	
EC50 Daphnia 1	630 mg/l (48 h; Ceriodaphnia dubia)	
LC50 fish 2	2010 mg/l (96 h; Lepomis macrochirus; Static system)	
EC50 Daphnia 2	660 mg/l (48 h; Daphnia magna)	
Threshold limit algae 1	850 mg/l (72 h; Scenedesmus subspicatus)	
Threshold limit algae 2	> 100 mg/l (72 h; Scenedesmus subspicatus; GLP)	
sulfur (7704-34-9)		
LC50 fish 1	866 mg/l (96 h; Brachydanio rerio)	
LC50 fish 2	> 100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
TLM fish 1	10000 ppm (96 h; Gambusia affinis)	
Threshold limit other aquatic organisms 1	> 10000 mg/l (24 h; Daphnia magna)	
urea (57-13-6) (57-13-6)		
LC50 fish 1	> 6810 mg/l (96 h; Leuciscus idus; Nominal concentration)	
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Nominal concentration)	
LC50 fish 2	17500 mg/l (96 h; Poecilia reticulata)	
EC50 Daphnia 2	> 10000 mg/l (24 h; Daphnia magna)	
TLM fish 1	17500 ppm (96 h; Poecilia reticulata)	
Threshold limit other aquatic organisms 1	120000 mg/l (16 h; Bacteria; Toxicity test)	
Threshold limit other aquatic organisms 2	> 10000 mg/l (Pseudomonas putida)	
Threshold limit algae 1	> 10000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)	
Threshold limit algae 2	47 mg/l (192 h; Microcystis aeruginosa; Growth rate)	
ammonium sulfate (7783-20-2) (7783-20-2)		
LC50 fish 1	126 mg/l (96 h; Poecilia reticulata)	
EC50 Daphnia 1	202 mg/l (96 h; Daphnia magna)	
LC50 fish 2	250 - 480 mg/l (96 h; Brachydanio rerio)	
EC50 Daphnia 2	433 mg/l (50 h; Daphnia magna)	
TLM fish 1	1290 ppm (96 h; Gambusia affinis)	
2.2. Persistence and degradability		

Best TRIgreen 22-2-11 with GAL-Xe ONE and X-Cote		
Persistence and degradability	Not established.	
Monoammonium Phosphate (7722-76-1)		
Persistence and degradability Biodegradability in water: no data available. Not established.		
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	

Iron Oxysulfate	
Persistence and degradability	Not established.
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
sulfur (7704-34-9)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
wax (paraffins- petroleum) (64771-72-8)	
Persistence and degradability	Readily biodegradable in water.
urea (57-13-6) (57-13-6) Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Not established.
ThOD	
	0.27 g O₂/g substance
ammonium sulfate (7783-20-2) (7783-20-	
Persistence and degradability	Biodegradability in water: no data available. Not established.
Sand	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Best TRIgreen 22-2-11 with GAL-Xe ONE	and X-Cote
Bioaccumulative potential	Not established.
Monoammonium Phosphate (7722-76-1)	
Bioaccumulative potential	Not bioaccumulative. Not established.
potassium sulfate (7778-80-5)	
Bioaccumulative potential	Not bioaccumulative. Not established.
Iron Oxysulfate	
Bioaccumulative potential	Not established.
potassium chloride (7447-40-7)	
Log Pow	-0.46 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
sulfur (7704-34-9)	
Log Pow	0.23 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.
wax (paraffins- petroleum) (64771-72-8)	No biogeoumulation data available
Bioaccumulative potential	No bioaccumulation data available.
urea (57-13-6) (57-13-6)	
BCF fish 1	1 (72 h; Brachydanio rerio; Fresh water)
BCF other aquatic organisms 1	11700 (Chlorella sp.)
Log Pow	 < -1.73 (Experimental value; EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
ammonium sulfate (7783-20-2) (7783-20-	
Log Pow	-5.1
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
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Not established.						
Bioaccumulative potential Not established. 2.4. Mobility in soil						
Not toxic to bees.						
: No known ecological damage caused by this product.						
: Avoid release to the environment.						
. Avoid release to the environment.						
ons						
: Dispose in a safe manner in accordance with local/national regulations.						
Ecology - waste materials : Avoid release to the environment.						
n						
In accordance with DOT Not regulated for transport						
TDG						
No additional information available						
Fransport by sea No additional information available						
Air transport No additional information available						

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 except for:

Iron Oxysulfate	CAS No	%
wax (paraffins- petroleum)	CAS No 64771-72-8	%
Polymer Coating	CAS No	%
Sand	CAS No	%

This product or mixture does not 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.

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

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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

sulfur (7704-34-9)					
U.S New Jersey - Right to Know Hazardous Substance List					

SECTION 16: Other Information	on
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.
Full text of H-statements:	

ull	tex	t	0	t	Н	-statements:

H	H315	Causes skin irritation
H	1320	Causes eye irritation
H	H335	May cause respiratory irritation

SDS US (GHS HazCom 2012)

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