

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/06/2015 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form : Mixt	ure		
Product name : Fert	iClear Mar-K 2-0-10 + 6% S		
1.2. Relevant identified uses of the substance of	r mixture and uses advised against		
	ous agricultural applications		
	°		
1.3. Details of the supplier of the safety data sh	eet		
MarVista Resources 745 North Ave.			
Corcoran, Ca. 93212 - USA			
T 559-992-4535			
1.4. Emergency telephone number			
Emergency number : 24 H	lour Emergency Response Chemtrec: 1-8	00-424-9300	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mixture			
Classification (GHS-US)			
Not classified			
2.2. Label elements			
GHS-US labeling			
No labeling applicable			
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information on in	ngredients		
3.1. Substance			
Not applicable			
3.2. Mixture			
Name	Product identifier	%	Classification (GHS-US)
ammonium nitrate,conc combustible substances<0,2%	(CAS No) 6484-52-2	2.26 - 4.52	Eye Irrit. 2B, H320
urea	(CAS No) 57-13-6	1.74 - 3.48	Eye Irrit. 2B, H320
Full text of H-phrases: see section 16			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general : If yo	u feel unwell, seek medical advice (show t	he label where	possible).
First-aid measures after inhalation : Ren	nove person to fresh air and keep comforta	able for breathin	g.
First-aid measures after skin contact : Was	sh skin with plenty of water.		
First-aid measures after eye contact : Rins	e eyes with water as a precaution.		
First-aid measures after ingestion : Call	a POISON CENTER or doctor/physician i	f you feel unwel	I. Rinse mouth.
4.2. Most important symptoms and effects, both	acute and delayed		
	expected to present a significant hazard u	nder anticipated	l conditions of normal use.
Symptoms/injuries after inhalation : May	cause slight irritation.		
	tact during a long period may cause light i	rritation.	
Symptomoliniurios ofter ave contect	and a long ponea may ease ight		
Symptoms/injuries after eye contact : May	cause slight irritation.		
Symptoms/injuries after ingestion : May	cause slight irritation. cause gastrointestinal discomfort.		
Symptoms/injuries after ingestion : May	cause slight irritation. cause gastrointestinal discomfort.		

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SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Special hazards arising from the sub	ostance or mixture
Reactiv	ity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3.	Advice for firefighters	
Protecti	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
6.1.1. Emergen	For non-emergency personnel cy procedures	: Ventilate spillage area.
6.1.2. Protective	For emergency responders e equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection" ".
6.2.	Environmental precautions	
Avoid rel	ease to the environment.	
6.3.	Methods and material for containmen	nt and cleaning up
Methods Other info	for cleaning up ormation	 Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furthe	er information refer to section 8 : Exposu	e-controls/personal protection"".
SECTIO	ON 7: Handling and storage	

7.1.	Precautions for safe handling		
Precautio	ons for safe handling	:	Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene	measures		Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, including	g a	any incompatibilities
Storage of	conditions	:	Store in a well-ventilated place. Keep cool.
Storage a	area	:	Store in a cool, dry place. Store in a well-ventilated place.
Special ru	ules on packaging	:	correctly labelled. meet the legal requirements.

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8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Protective gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	: Avoid release to the environment.

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SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	 Mixture contains one or more component(s) which have the following colour(s): Colourless or white White Colourless Brown-black to black Colourless to white
Odor	 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 In moist air: Ammonia odour Mild odour Characteristic odour Nutty. sweet
Odor threshold	: No data available
pH	: 6.8 - 7.1
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.17 g/ml
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
0.0 Other information	

9.2. Other information

No additional information available

SECTIC	DN 10: Stability and reactivity
10.1.	Reactivity
The produ	uct is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Stable un	der normal conditions.
10.3.	Possibility of hazardous reactions
No dange	rous reactions known under normal conditions of use.
10.4.	Conditions to avoid
None und	er recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
No additio	onal information available
10.6.	Hazardous decomposition products
Thermal of	lecomposition generates : Potassium oxide. Sulfur oxides.
SECTIC	DN 11: Toxicological information
11.1.	Information on toxicological effects
Acute tox	city : Not classified

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ammonium nitrate,conc combustible substa	ances<0,2% (6484-52-2)
LD50 oral rat	4820 mg/kg (Rat)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)
ATE US (oral)	4820.000 mg/kg body weight
urea (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 body weight
Skin corrosion/irritation	: Not classified
	pH: 6.8 - 7.1
Serious eye damage/irritation	: Not classified
	pH: 6.8 - 7.1
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause slight irritation.
Symptoms/injuries after skin contact	: Contact during a long period may cause light irritation.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal discomfort.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

ammonium nitrate,conc combustible substances<0,2% (6484-52-2)		
LC50 fish 1	74 mg/l (48 h; Cyprinus carpio; Lethal)	
EC50 Daphnia 1	555 mg/l (Daphnia magna)	
LC50 fish 2	800 mg/l (3.9 h; Pisces)	
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)	
urea (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)	

12.2. Persistence and degradability

ammonium nitrate,conc combustible substances<0,2% (6484-52-2)</th>Persistence and degradabilityBiodegradable in water. Biodegradable in the soil.

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urea (57-13-6)	
Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Highly mobile in soil.
ThOD	0.27 g O ₂ /g substance

12.3. Bioaccumulative potential

ammonium nitrate,conc combustible substances<0,2% (6484-52-2)		
Log Pow	-3.1	
Bioaccumulative potential	Bioaccumulation: not applicable.	
urea (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.	

12.4. Mobility in soil

No additional information available

12.5.	Other	adverse	effects
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Effect on the global warming

: No known ecological damage caused by this product.

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Sewage disposal recommendations	: Prevent liquid from entering sewers, watercourses, underground or low areas.	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.	

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory

urea (57-13-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

National regulations No additional information available

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ammonium nitrate,conc combustible substances<0,2% (6484-52-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

H320	Causes eye irritation
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

SDS US (GHS HazCom 2012)

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