

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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 : M822511IND
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 : Serious eye damage/eye irritation, Category 2B

2.2. Label elements

Signal word (GHS-ID) : Warning
Hazard statements (GHS-ID) : Causes eye irritation (H320)
Precautionary statements (GHS-ID) : 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

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
urea (57-13-6)	(CAS No) 57-13-6	
potassium chloride	(CAS No) 7447-40-7	
Monoammonium Phosphate	(CAS No) 7722-76-1	
Polymer Coating		
ammonium nitrate	(CAS No) 6484-52-2	
Magnesium Sulfate		

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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

Name	Product identifier	%
Pacmix	(CAS No) None	
potassium sulfate	(CAS No) 7778-80-5	
Proprietary		
diammoniumhydrogenphosphate	(CAS No) 7783-28-0	
Wax	(CAS No) 64771-72-8	
Calcium Phosphate	(CAS No) 7758-23-8	
calcium hydroxide	(CAS No) 1305-62-0	
quartz	(CAS No) 14808-60-7	
Maleic-itaconic copolymer	(CAS No) 556055-76-6	

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).
Inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow breathing of fresh air. Allow the victim to rest.
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
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 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	: 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 substance or mixture

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
------------	--

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

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

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 : Ensure good ventilation of the work station. 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 contact with skin and eyes. 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 any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. 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
calcium hydroxide (1305-62-0)		
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
quartz (14808-60-7)		
United Kingdom	WEL TWA (mg/m ³)	0.1 R
USA - ACGIH	ACGIH TWA (mg/m ³)	0.025 R

Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

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

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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

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
Density	: 68 - 70 lbs./cu. ft.
Solubility	: Water: Soluble and slowly soluble. Polymer coating, and wax insoluble.
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

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)

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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

ammonium nitrate (6484-52-2)

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

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 chloride (7447-40-7)

LD50 oral rat	2600 mg/kg (Rat)
---------------	------------------

potassium sulfate (7778-80-5)

LD50 oral rat	6600 mg/kg (Rat)
---------------	------------------

calcium hydroxide (1305-62-0)

LD50 dermal rabbit	> 2500 mg/kg bodyweight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
--------------------	---

Skin corrosion/irritation	: Not classified
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)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Density	68 - 70 lbs./cu. ft.
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.

urea (57-13-6) (57-13-6)

LC50 fish 1	> 6810 mg/l (96 h; Leuciscus idus; Nominal concentration)
LC50 fish 2	17500 mg/l (96 h; Poecilia reticulata)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Nominal concentration)
EC50 Daphnia 2	> 10000 mg/l (24 h; Daphnia magna)
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)
TLM fish 1	17500 ppm (96 h; Poecilia reticulata)
Threshold limit other aquatic organisms 1	120000 mg/l (16 h; Bacteria; Toxicity test)

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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

urea (57-13-6) (57-13-6)	
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 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 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)

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)
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)

calcium hydroxide (1305-62-0)	
LC50 fish 1	160 mg/l (96 h; Gambusia affinis; GLP)
LC50 fish 2	220 mg/l (48 h; Gambusia affinis)
LC50 other aquatic organisms 1	100 - 1000 mg/l (96 h)
EC50 Daphnia 1	49.1 mg/l (48 h; Daphnia magna; GLP)
TLM fish 1	33.9 mg/l (96 h; Pisces)
TLM fish 2	220 ppm (48 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	100 - 1000,96 h
Threshold limit algae 1	184.57 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)

quartz (14808-60-7)	
Log Pow	Not applicable

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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

12.2. Persistence and degradability

Simplot CRF 22-6-10+3Mg+TE Oil Palm	
Persistence and degradability	Not established.
urea (57-13-6) (57-13-6)	
Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Not established.
ThOD	0.27 g O ₂ /g substance
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 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
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
Proprietary	
Persistence and degradability	Not established.
Wax (64771-72-8)	
Persistence and degradability	Not established.
Maleic-itaconic copolymer (556055-76-6)	
Persistence and degradability	Not established.
calcium hydroxide (1305-62-0)	
Persistence and degradability	Biodegradability: 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

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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

quartz (14808-60-7)

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.
-------------------------------	------------------

12.3. Bioaccumulative potential

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Bioaccumulative potential	Not established.
---------------------------	------------------

urea (57-13-6) (57-13-6)

BCF fish 1	See section 12.1 on ecotoxicology
BCF other aquatic organisms 1	See section 12.1 on ecotoxicology
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Bioaccumulation: not applicable. 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 chloride (7447-40-7)

Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.

potassium sulfate (7778-80-5)

Bioaccumulative potential	Not bioaccumulative. Not established.
---------------------------	---------------------------------------

Proprietary

Bioaccumulative potential	Not established.
---------------------------	------------------

Wax (64771-72-8)

Bioaccumulative potential	Not established.
---------------------------	------------------

Maleic-itaconic copolymer (556055-76-6)

Bioaccumulative potential	Not established.
---------------------------	------------------

calcium hydroxide (1305-62-0)

Bioaccumulative potential	Not bioaccumulative. Not established.
---------------------------	---------------------------------------

quartz (14808-60-7)

Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	No bioaccumulation data available. Not established.

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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

Pacmix (None)

Bioaccumulative potential	Not established.
---------------------------	------------------

12.4. Mobility in soil

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Mobility in soil	No additional information available
------------------	-------------------------------------

urea (57-13-6) (57-13-6)

Log Pow	See section 12.1 on ecotoxicology
---------	---

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
---------	---

quartz (14808-60-7)

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

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

Simplot CRF 22-6-10+3Mg+TE Oil Palm

Safety Data Sheet

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

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.

SDS Indonesia

Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.