Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Best-Tabs 20-10-5 Controlled Release Fertilizer Tablets
Product code	: M74002
1.2. Relevant identified uses of the subs	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	
2.1. Classification of the substance or m	ixture
GHS-US classification	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2BH320 - Causes eye irritationSTOT SE 3H335 - May cause respiratory irri	itation
Full text of H-statements: see section 16	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H320 - Causes eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P264 - Wash 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/doctor/ if you feel unwell P321 - Specific treatment (see on this label) P332+P313 - If skin irritation occurs: Get medical attention P337+P313 - If eye irritation persists: Get medical attention P362 - Take off contaminated clothing and wash before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to specify in accordance with local/regional/national regulations
2.3. Other hazards	

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Name	Product identifier	%	GHS-US classification
formaldehyde/urea,resins	(CAS No) 9011-05-6		Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Monoammonium Phosphate	(CAS No) 7722-76-1		Eye Irrit. 2B, H320 STOT SE 3, H335
potassium sulfate	(CAS No) 7778-80-5		Not classified
Calcium Phosphate	(CAS No) 7758-23-8		Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Dicalcium Phosphate	(CAS No) 7757-93-9		Eye Irrit. 2B, H320
Pacmix	(CAS No) None		Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
ammonium sulfate	(CAS No) 7783-20-2		Eye Irrit. 2B, H320 STOT SE 3, H335
Wax	(CAS No) 64771-72-8		Not classified
magnesium stearate	(CAS No) 557-04-0		Not classified
Ferrous Sulfate Monohydrate	(CAS No) 17375-41-6		Acute Tox. 4 (Oral), H302 Eye Irrit. 2B, H320 STOT SE 3, H335

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	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.	
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.	
4.2. Most important symptoms and effects	s, both acute and delayed	
Symptoms/injuries	Not expected to present a significant hazard under anticipated conditions of normal use.	
4.3. Indication of any immediate medical a	ttention 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 substance or mixture		
Reactivity	Stable.	
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.	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Federal Register / Vol. 77, No. 58 / Mono	ccording to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations	
SECTION 6: Accidental release me	easures	
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary 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. No	otify authorities if liquid enters sewers or public waters.	
6.3. Methods and material for contain	iment and cleaning up	
Methods for cleaning up	: 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 person	nal protection.	
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.	
7.2. Conditions for safe storage, inclu	uding 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.	
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
SECTION 8: Exposure controls/pe	record protection	
8.1. Control parameters		

magnesium stearate (557-04-	-0)	
ACGIH	ACGIH TWA (mg/m³)	10 mg/m ³
.2. Exposure controls		
ersonal protective equipment	: Avoid all unnecessary exposure.	
land protection	: Wear protective gloves.	
ye protection	: Chemical goggles or safety glasses.	
espiratory protection	: Wear appropriate mask.	
Other information	: Do not eat, drink or smoke during use	
SECTION 9: Physical an	d chemical properties	
.1. Information on basic	physical and chemical properties	
hysical state	: Solid	
ppearance	: Mottled grey.	
colour	: Gray	
dour	: characteristic	
dour threshold	: No data available	
н	: 7.36	
lelting point	: No data available	
reezing point	: No data available	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Boiling point	: No data available
Flash point	: Non-flammable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 2.97 g/cm ³
Solubility	: Soluble and slowly soluble.
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

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
Stable.		
10.2. Chemical stability		
Not established.		
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid		
Extremely high temperatures. Direct sunlight. Extremely high or low temperatures.		
10.5. Incompatible materials		
Strong acids. Becomes corrosive to metals when wet. Strong bases.		
10.6. Hazardous decomposition products		
During high temperature in fire conditions. The product may reach melting point and decompose to release NH3, SOx, POx, or CN. fume. Carbon monoxide. Carbon dioxide.		
SECTION 11: Toxicological information		

11.1. Information on toxicological effects

Acute toxicity

: Not classified

formaldehyde/urea,resins (9011-05-6)		
LD50 oral rat	8394 mg/kg (Rat)	
LD50 dermal rat	> 2100 mg/kg (Rat)	
ATE US (oral)	8394.000 mg/kg bodyweight	
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	
Calcium Phosphate (7758-23-8)		
LD50 oral rat	17500 mg/kg (Rat; Literature)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature)	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Calcium Phosphate (7758-23-8)	
ATE US (oral)	17500.000 mg/kg bodyweight
Dicalcium Phosphate (7757-93-9)	
LD50 oral rat	10000 mg/kg (Rat)
LD50 dermal rat	7940 mg/kg (Rat)
ATE US (oral)	10000.000 mg/kg bodyweight
ATE US (dermal)	7940.000 mg/kg bodyweight
ammonium sulfate (7783-20-2)	
LD50 oral rat	2840 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	2840.000 mg/kg bodyweight
potassium sulfate (7778-80-5)	
LD50 oral rat	6600 mg/kg (Rat)
ATE US (oral)	6600.000 mg/kg bodyweight
Ferrous Sulfate Monohydrate (17375-41-6)	
LD50 oral rat	319 mg/kg
ATE US (oral)	319.000 mg/kg bodyweight
magnesium stearate (557-04-0)	
LD50 oral rat	> 5000 mg/kg (Rat)
Skin corrosion/irritation	: Causes skin irritation.
	pH: 7.36
Serious eye damage/irritation	: Causes eye irritation.
, .	pH: 7.36
Respiratory or skin sensitisation	. Not classified
Germ cell mutagenicity	: Not classified
<i>c y</i>	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)	: 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		
formaldehyde/urea,resins (9011-05-6)		
LC50 fish 1	> 500 mg/l (96 h; Leuciscus idus; Estimated value)	
EC50 Daphnia 1	65000 mg/l (Daphnia magna; QSAR)	
Monoammonium Phosphate (7722-76-1)		
LC50 fish 1	155 ppm (96 h; Pimephales promelas)	
ammonium sulfate (7783-20-2)		
LC50 fish 1	126 mg/l (96 h; Poecilia reticulata)	
EC50 Daphnia 1	202 mg/l (96 h; Daphnia magna)	
09/24/2015	EN (English) 5/8	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ammonium sulfate (7783-20-2)	
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)
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)

12.2. Persistence and degradability

12.2. Persistence and degradability		
Best-Tabs 20-10-5 Controlled Release Fertilizer Tablets		
Persistence and degradability	Not established.	
formaldehyde/urea,resins (9011-05-6)		
Persistence and degradability	Not readily biodegradable in water. Not established.	
Monoammonium Phosphate (7722-76-1)		
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	
Dicalcium Phosphate (7757-93-9)		
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	
ammonium sulfate (7783-20-2)		
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	
Ferrous Sulfate Monohydrate (17375-41-6)		
Persistence and degradability	Not established.	
Pacmix (None)		
Persistence and degradability	Not established.	
magnesium stearate (557-04-0)		
Persistence and degradability	Biodegradability in water: no data available. Not established.	
Wax (64771-72-8)		
Persistence and degradability	Not established.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Best-Tabs 20-10-5 Controlled Release Fertilizer Tablets		
Bioaccumulative potential	Not established.	
formaldehyde/urea,resins (9011-05-6)		
Bioaccumulative potential	No bioaccumulation data available. Not established.	
Monoammonium Phosphate (7722-76-1)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
Calcium Phosphate (7758-23-8)		
Bioaccumulative potential	No bioaccumulation data available. Not established.	
Dicalcium Phosphate (7757-93-9)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
ammonium sulfate (7783-20-2)		
Log Pow	-5.1	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	
potassium sulfate (7778-80-5)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
Ferrous Sulfate Monohydrate (17375-41-6)		
Bioaccumulative potential	Not established.	
Pacmix (None)		
Bioaccumulative potential	Not established.	
magnesium stearate (557-04-0)		
Log Pow	14.34 (Estimated value)	
Bioaccumulative potential	Not established.	
Wax (64771-72-8)		
Bioaccumulative potential	Not established.	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects		
Effect on the global warming	: No known ecological damage caused by this product.	
Other information	: Avoid release to the environment.	
SECTION 13: Disposal considerations		
SECTION 13: Disposal consideration	S	
SECTION 13: Disposal consideration 13.1. Waste treatment methods	S	
	S : 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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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:

Ferrous Sulfate Monohydrate	CAS No 17375-41-6	%
Pacmix	CAS No None	%

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

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	
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:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

SDS US (GHS HazCom 2012)

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.