### 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

Best-Tabs 20-10-5 Controlled Release Fertilizer Tablets Product name

Product code : M74002

#### Recommended use and restrictions on use

No additional information available

#### **Supplier**

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

#### **Emergency telephone number**

Emergency number : CHEMTREC 1-800-424-9300

#### **SECTION 2: Hazard(s) identification**

#### Classification of the substance or mixture

#### **GHS-US** classification

Skin corrosion/irritation, H315 Causes skin irritation

Category 2

Serious eye damage/eye H320 Causes eye irritation irritation, Category 2B

Specific target organ H335

toxicity — Single exposure,

Category 3, Respiratory

tract irritation

Full text of H statements : see section 16

## **GHS** Label elements, including precautionary statements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



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 hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

May cause respiratory irritation

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 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 ... specify in accordance with local/regional/national

regulations

09/01/2017 EN (English) Page 1

### Safety Data Sheet

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

#### Other hazards which do not result in classification

No additional information available

#### Unknown acute toxicity (GHS US) 2.4.

Not applicable

#### **SECTION 3: Composition/information on ingredients**

#### **Substance**

Not applicable

#### 3.2. **Mixture**

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 hazard classes and H-statements: see section 16

#### **SECTION 4: First-aid measures**

4.4	D 1 11		
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 Remove person to fresh air and keep comfortable for breathing. 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. Wash skin with plenty of water.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist. Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

### Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

: Not expected to present a significant hazard under anticipated conditions of normal use. Symptoms/injuries

#### Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### Specific hazards arising from the chemical

Reactivity : Stable.

09/01/2017 EN (English) 2/9

### Safety Data Sheet

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

#### 5.3. Special protective equipment and precautions for fire-fighters

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

#### 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.

Other information : Dispose of materials or solid residues at an authorized site.

#### 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. Wear personal protective equipment. 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.

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.

#### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### formaldehyde/urea, resins (9011-05-6)

Not applicable

### Monoammonium Phosphate (7722-76-1)

Not applicable

#### Calcium Phosphate (7758-23-8)

Not applicable

#### Dicalcium Phosphate (7757-93-9)

Not applicable

#### ammonium sulfate (7783-20-2)

Not applicable

#### potassium sulfate (7778-80-5)

Not applicable

09/01/2017 EN (English) 3/9

### Safety Data Sheet

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

Ferrous Sulfate Monohydrate (17375-41-6)			
Not applicable			
Pacmix (None)			
Not applicable			
magnesium stearate (557-04-0)			
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³	
Wax (64771-72-8)			
Not applicable			

#### 8.2. Appropriate engineering controls

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

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/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

Other information:

Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Mottled grey.
Colour : Gray
Odour : characteristic

Odour : cnaracteristic
Odour threshold : No data available

pH : 7.36

Melting point : No data available Freezing point : Not applicable Boiling point : No data available : Non-flammable Flash point : No data available Relative evaporation rate (butylacetate=1) Flammability (solid, gas) : Non flammable. Vapour pressure : No data available : No data available Relative vapour density at 20 °C Relative density : Not applicable Density : 2.97 g/cm<sup>3</sup>

Solubility : Soluble and slowly soluble.

Log Pow : No data available
Auto-ignition temperature : Not applicable

09/01/2017 EN (English) 4/9

### Safety Data Sheet

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

Decomposition temperature : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available
Explosive limits : Not applicable
Explosive properties : No data available
Oxidising properties : 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

ammonium sulfate (7783-20-2)		

09/01/2017 EN (English) 5/9

### Safety Data Sheet

LC50 other aquatic organisms 1

Threshold limit other aquatic organisms 1

EC50 Daphnia 1 LC50 fish 2

EC50 Daphnia 2

TLM fish 1

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

Ferrous Sulfate Monohydrate (17375-41-6)	
LD50 oral rat	319 mg/kg
ATE US (oral)	319 mg/kg bodyweight
magnesium stearate (557-04-0)	
LD50 oral rat	> 5000 mg/kg (Rat)
Skin corrosion/irritation	: Causes skin irritation.
Okin concern maderi	pH: 7.36
Serious eye damage/irritation	: Causes eye irritation.
,	pH: 7.36
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)	: 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.
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
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.
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)
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)

09/01/2017 EN (English) 6/9

890 mg/l (48 h; Daphnia magna; Static system)

653 - 796 mg/l (96 h; Lepomis macrochirus)

> 1000 mg/l (96 h)

> 1000 mg/l (96 h)

1180 mg/l (96 h; Crustacea)

3550 ppm (96 h; Lepomis sp.)

# Safety Data Sheet

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

potassium sulfate (7778-80-5)	
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)	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.		

### 12.3. Bioaccumulative potential

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.	

09/01/2017 EN (English) 7/9

### Safety Data Sheet

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

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)	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 effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

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**

#### **Department of Transportation (DOT)**

In accordance with DOT

Other information : No supplementary information available.

**TDG** 

Transport by sea

Air transport

### **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	%

09/01/2017 EN (English) 8/9

### Safety Data Sheet

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

#### 15.2. International regulations

#### **CANADA**

No additional information available

### ammonium sulfate (7783-20-2)

Listed on the Canadian DSL (Domestic Substances List)

#### **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:

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.

09/01/2017 EN (English) 9/9