

**Material Safety Data Sheet**  
**J. R. Simplot Company**  
**AgriBusiness**

**M77688**

Trade Name: Couchmaxx 23-1-10  
Registration No: None

**SECTION 1**

**CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Manufacturer or Formulator:** J.R. Simplot Company  
P.O. Box 70013  
Boise, ID 83707  
**Emergency Phone - Chemtrec:** 1-800-424-9300

**Product Name:** Couchmaxx 23-1-10  
**Common Name:** 23-1-10  
**Chemical Type:** Inorganic Chemical Fertilizer

**SECTION 2**

**COMPOSITION INFORMATION**

**Chemical Name and Synonyms      C.A.S. No.      Chemical Formula      WT%      TLV      PEL**

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations

**Hazardous**  
**Non-Hazardous**

This is a homogeneous granular product derived from:

100%

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
N- (n-butyl)- thiophosphonic triamide	94317-64-3	C <sub>4</sub> H <sub>14</sub> N <sub>3</sub> PS	*	Not listed	Not listed
Urea	16389-88-1	CaMg(CO <sub>3</sub> ) <sub>2</sub>	*	10 mg/m <sup>3</sup> Nuisance Dust	15 mg/m <sup>3</sup> Nuisance Dust
Organic Nitrogen (dicyandiamide)			*		
Sulfate of Potash			*		
Potassium Chloride			*		
Triple Superphosphate					
Monocalcium Phosphate n-hydrate	7758-23-8	Ca(H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> .H <sub>2</sub> O		10 mg/m <sup>3</sup> Nuisance Dust	10 mg/m <sup>3</sup> Nuisance Dust
Dicalcium Phosphate n-hydrate	N/A	CaHPO <sub>4</sub> .2H <sub>2</sub> O	*	Not listed	Not listed
Iron Oxide	1309-37-1	Fe <sub>2</sub> O <sub>3</sub>	*	5 mg/m <sup>3</sup> (resp. fraction)	10 mg/m <sup>3</sup> (resp. fraction)
Iron Sulfate	7720-78-7	Fe <sub>2</sub> SO <sub>4</sub>	*	1 mg/m <sup>3</sup> as Fe	Not available
Dolomite	16389-88-1	CaMg(CO <sub>3</sub> ) <sub>2</sub>	*		
Manganese Oxide	1313-13-9	MnO <sub>2</sub>	*	0.2 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

\*In a ratio to provide 23% nitrogen (N), 1% phosphorus (P) and 10% potassium (K). Also provides sulfur (S), Iron (Fe), and manganese (Mn).

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other nonhazardous ingredients are also possible.

**SECTION 3**

**HAZARDS IDENTIFICATION**

**Ingestion:** Oral exposure is considered to be unlikely. Ingestion may cause gastrointestinal discomfort and irritation to the mucous membranes.

**Inhalation:** Dusty conditions may cause mechanical aggravation to respiratory mucous membranes.

**Eye Contact:** Dust from this product may cause particulate discomfort to eyes. Symptoms may include stinging and reddening with copious tearing. Symptoms should disappear once exposure has ceased. Lengthy exposures and/or delayed treatment may cause permanent eye damage

**Skin Absorption:** Not normally absorbed through the skin.

**Skin Contact:** Slight dermal abrasion is possible with prolonged contact, especially around cuffs and collars.

**Effects of Overdose:** Oral exposure is unlikely. Ingestion may be irritating to the mucous membranes but is unlikely to cause anything more than transient discomfort. Seek medical attention if necessary.

**SECTION 4**

**FIRST AID MEASURES**

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and seek medical attention via the Poison Control Center by calling: 1-800- 222-1222

**Inhalation:** No first-aid normally required. If irritation occurs, remove to fresh air and if condition persists, seek medical attention.

**Eyes:** Gently brush product away. Flush eyes with running water for 20 minutes and seek medical attention if condition persists. Take special care if contact lenses are worn.

**Skin:** Gently brush particles away and wash thoroughly with water and seek medical attention if irritation persists.

**Notes to Physician:** Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions.

**SECTION 5**

**FIRE FIGHTING MEASURES**

**Extinguishing Media:** Suitable extinguishing media are carbon dioxide, dry chemical, foam, water fog.

**Special Fire Fighting Procedures:** Product is not combustible.

**Unusual Fire and Explosion Hazards:** During extremely high temperatures under fire conditions, product may release toxic fumes during decomposition.

**SECTION 6**

**ACCIDENTAL RELEASE MEASURES**

**Environmental Precautions:** Keep out of water supplies, lakes, ponds, streams and rivers.

**Steps to be taken in case material is released or spilled:**

Prevent material from entering waterways. Sweep up and/or shovel material into suitable labeled containers and use for recycling or salvage. Consider vacuuming for clean-up. Ensure legality of disposal and thoroughly laundry protective clothing prior to storage or re-use once the area has been cleaned.

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**SECTION 7**

**HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:** Assure containers of this product are dry and closed tightly to avoid contact with water or "Incompatibilities" listed in Section 10. Check packaging for additional storage information on the label.

**SECTION 8**

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation Protection:** This product should only be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.  
**Respiratory Protection:** Use an approved dust respirator if dusty conditions are present.  
**Protective Clothing:** Wear clean clothing made of cotton, rubber or PVC.  
**Eye Protection:** In dusty conditions, safety glasses with side shields or goggles are advised. Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being handled commercially.

**SECTION 9**

**PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	Not applicable	<b>Solubility in Water:</b>	Soluble
<b>Density:</b>	Not applicable	<b>% Volatiles (by volume):</b>	Nil at 100 <sup>o</sup> C
<b>Flashpoint:</b>	No data	<b>Vapor Pressure, mm Hg:</b>	Nil at ambient temperatures.
<b>pH:</b>	No data	<b>Reaction with Water:</b>	None
<b>Appearance:</b>	Multicolored granules	<b>Odor:</b>	Mild odor
<b>Extinguishing Media:</b>	Carbon Dioxide, dry chemical, foam and water fog	<b>Freezing/Melting Point:</b>	Decomposes before melting
<b>Evaporation Rate:</b>	Not applicable- does not burn		

**SECTION 10**

**STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable  
**Conditions to Avoid:** Extremely high temperatures.  
**Incompatibility (Material to Avoid):** Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals.  
**Hazardous Decomposition Products:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide, smoke and water. Forms of nitrogen oxides, sulfur compounds and hydrogen cyanide gas may also be present and present a respiratory hazard. Decomposition may also produce oxides of phosphorus and other phosphorus compounds, including potassium, manganese and iron compounds which can contribute to carbon monoxide poisoning. Symptoms of carbon monoxide poisoning include: headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.  
**Hazardous Polymerization:** Will not occur

**SECTION 11**

**TOXICOLOGY INFORMATION**

No date is available to indicate effects to target organs.

**SECTION 12**

**ECOLOGICAL INFORMATION**

This product is unlikely to produce an adverse effect or hazard to the environment.

Ingredient	Oral LD50 (rat)	Dermal LD50 (rat)	Aquatic Fish 96-hour	Aquatic (other)
<b>N- (n-butyl)- thiophosphonic triamide</b>	14,300 mg/kg	None Listed	None Listed	None Listed
<b>Potassium Chloride (Muriate of Potash)</b>	1,500-2,600 mg/kg	None Listed	2,010 mg/L	None Listed
<b>Potassium Sulfate (Sulfate of Potash)</b>	6,600 mg/kg	None Listed	680-3,550 mg/L	720-890 mg/L (daphnia)

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to separate the contamination in some way. Only if neither of these options is suitable, consider landfill.

**SECTION 14**

**TRANSPORT INFORMATION**

<b>Shipping name:</b>	Not regulated by DOT	<b>C.A.S. Number:</b>	None
<b>Hazard Class:</b>	None	<b>D.O.T. Number:</b>	None
<b>Reportable Quantity (RQ):</b>	None	<b>Haz Waste No:</b>	None
<b>Labels Required:</b>	None	<b>EPA Regist No:</b>	None
<b>Placard:</b>	None		

**SECTION 15**

**REGULATORY INFORMATION**

**Carcinogenicity:** by IARC?: Yes ( ) No (X) by NTP?: Yes ( ) No (X)

This product contains {insert chemical} compounds which may be subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.45.

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**SECTION 16****OTHER INFORMATION**

<b>Flash Point (Test Method):</b>	Non-flammable	<b>Flammable Limits</b>	<b>LOWER</b>	<b>UPPER</b>
<b>Autoignition Temperature:</b>	Not applicable	(% BY VOLUME)	N/A	N/A

**MSDS Version Number: 1** (Drafted from original developed by Simplot Partners in Australia.)

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**Reviewed by:** The Environmental Health & Safety Department  
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