


SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION								
Trade Name:	Refirma™ Cybelion® 0-3-3								
Primary Use:	Supplemental Fertilizer								
Company Information:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Corporate Headquarters</td> <td style="width: 50%;">The Mosaic Company 101 East Kennedy Blvd, Ste 2500 Tampa, FL 33602</td> </tr> <tr> <td>US Guarantor</td> <td>Mosaic Biosciences Headquarters 5 Lab Drive, Suite 3200 Durham, NC 27709 Production 111 E. Tever Street Plant City, FL 33563-2417</td> </tr> <tr> <td>Canada Guarantor</td> <td>Mosaic Canada Crop Nutrition, LP 1700 – 2010 12th Ave. Regina, SK Canada S4P 0M3</td> </tr> <tr> <td>Contact Info</td> <td>www.cropnutrition.com +1 (813) 718-7284 MBNAinfo@mosaicco.com</td> </tr> </table>	Corporate Headquarters	The Mosaic Company 101 East Kennedy Blvd, Ste 2500 Tampa, FL 33602	US Guarantor	Mosaic Biosciences Headquarters 5 Lab Drive, Suite 3200 Durham, NC 27709 Production 111 E. Tever Street Plant City, FL 33563-2417	Canada Guarantor	Mosaic Canada Crop Nutrition, LP 1700 – 2010 12th Ave. Regina, SK Canada S4P 0M3	Contact Info	www.cropnutrition.com +1 (813) 718-7284 MBNAinfo@mosaicco.com
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Emergency Telephone:	EMERGENCY OVERVIEW 24 Hour Emergency Telephone Number: For Chemical Emergencies: Spill, Leak, Fire or Accident Call CHEMTREC North America: (800) 424-9300 (reference CCN201871) Others: (703) 527-3887 (collect)								
SECTION 2	HAZARD IDENTIFICATION								
OSHA/HCS Status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). See appropriate classifications below.								
	Signal Word: WARNING Hazard Statement(s) Causes serious eye irritation.								
Label Elements:									
Prevention:	Wear eye or face protection. Wash hands thoroughly after handling.								
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.								

SECTION 3		COMPOSITION INFORMATION ON INGREDIENTS	
Substances present in the mixture that are classified as dangerous to human health or to the environment according to the Globally Harmonized System, are assigned a community exposure limit in the workplace, are classified as PBT/vPvB:			
Name	Identifiers	Percentage	GHS Classification
D-Glucopyranose, oligomeric, decyl octyl glycosides	CAS No.: 68515-73-1 REACH: 01-2119488530-36-XXXX	<10 %	Eye Dam. 1; H318
1,2-benzisothiazol-3(2H)-one	CAS: 2634-33-5	<0.05%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1)

Guaranteed Analysis	Percentage
Total Nitrogen (N)	0%
Total Phosphorous (P ₂ O ₅)	3%
Total Soluble Potash (K ₂ O)	3%

SECTION 4		FIRST AID MEASURES	
First Aid Procedures:	Eyes:	Move victim away from exposure and into fresh air. Flush eyes with plenty of clean water for at least 15 minutes. If symptoms persist, seek medical attention.	
	Skin:	Wash contaminated area thoroughly with mild soap and water. If chemical or solution soaks through clothing, remove clothing and wash contaminated skin. If irritation develops and persists after washing, seek medical attention.	
	Inhaled:	If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.	
	Ingestion:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.	

SECTION 5		FIRE FIGHTING MEASURES	
Extinguishing Media:	Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog). Use an extinguishing agent suitable for the surrounding fire. Do not use water jet.		
Protection of Firefighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Positive pressure, self-contained breathing apparatus is required for all firefighting activities involving hazardous materials.		

SECTION 6	ACCIDENTAL RELEASE MEASURES
Response Techniques:	<p><u>Personal precautions, protective equipment and emergency procedures</u> For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Eliminate all ignition sources. For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). <u>Methods and materials for containment and cleaning up</u> Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.</p>
SECTION 7	HANDLING AND STORAGE
Handling:	<p>Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Advice on general occupation hygiene: Store and use away from heat, sparks, open flame or any other ignition source. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>

Storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION	
Engineering Controls:	Use process enclosure, general dilution ventilation or local exhaust systems where necessary to maintain airborne dust concentration below the OSHA standards or in accordance with applicable regulations.	
Personal Protective Equipment (PPE):	Eye/Face:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
	Skin:	<p>Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.</p> <p>Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</p> <p>Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</p>
	Respiratory:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure an MSHA/NIOSH-approved respirator or equivalent is used.
	Other:	A source of clean water should be available in the work area for flushing eyes and skin.
General Hygiene Considerations:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Exposure Guidelines:	OSHA Permissible Exposure Limits (PEL):	No OSHA TLV

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Brown solution (liquid)	Vapor Pressure (mm Hg):	Not applicable
Odor:	Characteristic	Vapor Density (air=1):	Not applicable
Odor Threshold:	No data available	Specific Gravity or Relative Density:	Not applicable
Physical state:	Liquid	Bulk Density:	1.06 g/cc
pH:	6 – 7	Solubility in Water:	Soluble
Melting Point/ Freezing Point:	Not applicable	Partition coefficient:	No data available
Boiling Point:	No data available	Auto-Ignition Temperature:	Not flammable
Flash Point:	Not applicable	Decomposition Temperature:	Not applicable
Evaporation Rate:	No data available	Viscosity:	No data available
Flammability:	Not applicable	Volatility:	Not applicable
Upper/Lower Flammability or explosive limits	Not applicable		

SECTION 10	STABILITY AND REACTIVITY
Reactivity:	No specific test data related to reactivity available for this product.
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid:	Keep away from heat, sparks and flame.
Incompatible Materials:	Unknown
Hazardous Decomposition Products:	None

SECTION 11	TOXICOLOGICAL INFORMATION
<p>There is no data for the product itself. In accordance with the calculation methods established in the Globally Harmonized System for the classification of mixtures, this product is not classified according to its components.</p> <p>(a) Acute toxicity: The product is not classified for acute toxicity based on the available data on the components.</p> <p>(b) Skin corrosion or irritation: The product is not classified as corrosive/skin irritant based on the available data on the components.</p> <p>(c) Serious eye damage or eye irritation: The product is not classified as corrosive/skin irritant based on the available data on the components.</p> <p>(d) Respiratory or skin sensitization: No toxicological data are available for the product itself, the data provided by the suppliers lead to the non-classification of the product.</p> <p>(e) CMR - Carcinogenicity, Mutagenicity and reproductive toxicity: No toxicological data are available for the product itself, the data provided by the suppliers lead to non-classification of the product.</p> <p>(f) STOT - single and repeated exposure: No toxicological data are available for the product itself, the data provided by the suppliers lead to non-classification of the product.</p> <p>(g) Aspiration hazard: The product does not contain substances classified as hazardous by aspiration.</p>	

SECTION 12	ECOLOGICAL INFORMATION
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Ecotoxicology:	No data available
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SECTION 13	DISPOSAL CONSIDERATIONS
	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14	TRANSPORT INFO
Non-hazardous	

SECTION 15	REGULATORY INFORMATION
U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: Not regulated. United States inventory (TSCA): Not regulated.	

SECTION 16	OTHER INFORMATION
Disclaimer:	The information in this document is believed to be correct as of the date issued. HOWEVER, MOSAIC MAKES NO GUARANTEE, REPRESENTATION, OR WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO THE USE OF THIS PRODUCT. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of use or application and assumes the risk of use thereof. The conditions and use of this product are beyond the control of Mosaic, and Mosaic disclaims any liability for loss or damage incurred in connection with the use or misuse of this product. Each user should review the recommended industrial hygiene and safe handling procedures in the specific context of the intended use and determine whether they are appropriate.
Preparation:	The preparation of this SDS was in accordance with ANSI Z400.1-2010.
Revision Date:	June 7, 2023