





Plan Contents:		
Facility & Food Safety Information	<u>2</u>	
Product Description: Granulated Sugar	<u>3</u>	
Flow Diagram: Granulated	<u>4</u>	
Process Preventive Control: Metal Detection Summary	<u>5</u>	
Supply-Chain Program	<u>6</u>	
Amendments & Training	Z	



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303 659 2151 / Local Lead Phone: 970 584 6490
Joe Toste
Lacey Messing
<10
Yes
The Brighton facility operates the sugar warehouse portion of a non-operational beet sugar factory. This warehousing facility receives granulated sugar in bagged or bulk form and the product is either stored in nine concrete silos or warehoused. Bulk product is screened and loaded into bulk railcars or trailers. Packaged product is loaded into boxcars, dry van trailers,
or containers.
or containers. Granulated Sugar
Granulated Sugar
Granulated Sugar AIB Consolidated Standards for Inspection
Granulated Sugar AIB Consolidated Standards for Inspection AIB International

Prerequisite Programs :

1. Personnel Practices

7. Air & Water Programs

13. Supplier Approval

10. Sanitary Transportation

4. Integrated Pest Management

**Facility Information** 

Team

L		
Joe Toste	Warehouse Manager	AIB Training
Mike McClain	Maintenance Lead	AIB Training
Lacey Messing	Food Safety & Quality Professional	Preventive Controls Qualified Individual
Kelly Malone	Quality Assurance Manager	Preventive Controls Qualified Individual

2. Employee Training

Maintenance

Agents

14. Visitors

vention & Control

5. Facility & Equipment

8. Physical Contaminant Pre-

11. Allergens & Sensitizing

Page: 2 of 7

3. Equipment Calibration

6. Cleaning & Sanitation

9. Product Storage &

12. Chemical Control &

Warehousing

Approval





Document No.: PD-01

General Product Information		
Product Name:	Granulated Sugar	
Technical Name:	Sucrose	
Product Description:	Sucrose is a nonreducing disaccharide composed of glucose and fructose bonded by an oxygen atom. It is derived from sugar beets or sugar cane and is used as a food and a sweetener.	
Ingredients:	Crystalline sucrose	
Intended Use:	This product is used as an ingredient in many food products and functions as a sweetener.	
Intended Consumer:	Granulated sugar is sold as retail or distributed to food processors that provide products to the general public, including high risk groups.	
Shelf Life:	5 years, 70%RH, 90°F	
Labeling Instructions:	None	
FDA Classification:	GRAS <u>21 CFR 184.1854</u>	
Storage:	Silo storage, ambient. Packaged product is warehoused.	
Distribution:	Granulated sugar is distributed in bulk or packaged form. Bulk sugar is transported by bulk rail or truck. Packaged sugar is distributed by trailer or container.	
Technical Information		
Chemical Formula:	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	
Water Activity (a <sub>w</sub> ):	$0.22^{1}$	
Moisture:	0.04% Max.	
Sulfites:	2 to 5 ppm. Must be less than 10 ppm.	
Microbiological:	Will not support the growth of vegetative pathogens. <sup>2,3</sup> Meets ISBT <sup>4</sup> and NFP <sup>5</sup> standards for use in carbonated beverages and canned foods.	
	Preventive Controls	
Process Control:	CCP Metal Detection (CCP 1 Bulk Metal Detector)	
Allergen Control:	None	
Sanitation Control:	None	
Supply-Chain Control:	Approved Supplier for Sugar Ingredient and Third-Party Audit Report	
<sup>1</sup> Water Activity Values of Select	Food Ingredients and Products	

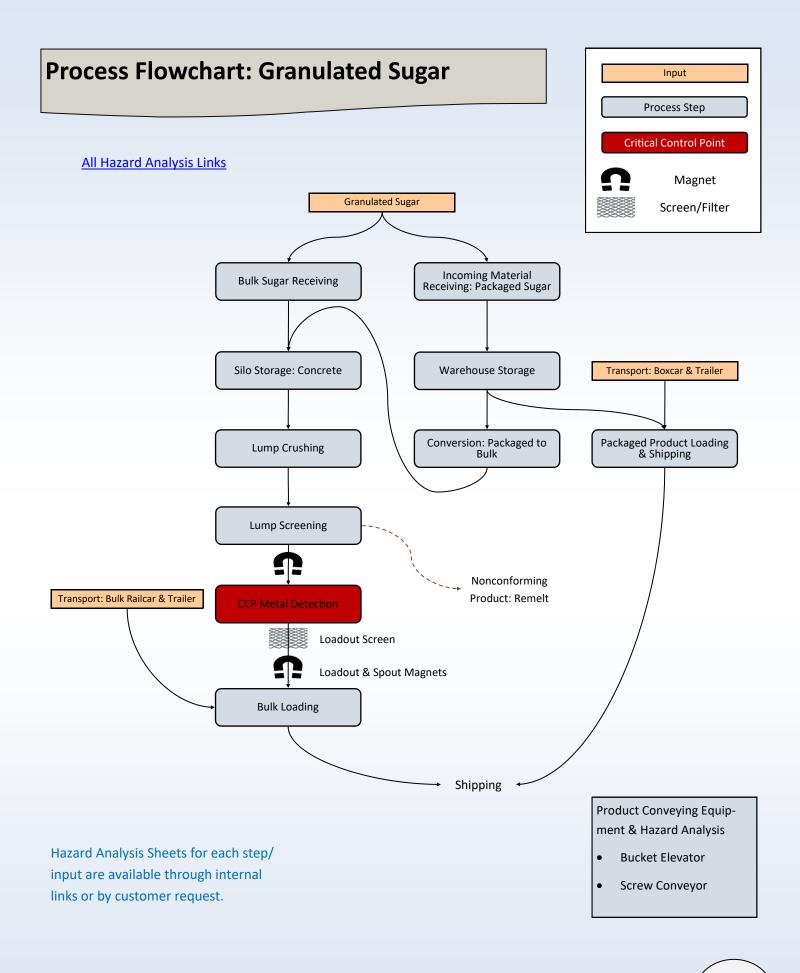
<sup>2</sup> <u>Microbial Risk Assessment: Pathogen Challenge Evaluations of Granulated and Liquid Sugar</u>

<sup>3</sup> Fate of Bacterial Pathogens and Indicator Organisms in Liquid Sweeteners

<sup>4</sup> ISBT

<sup>5</sup> GMA Canner's Standard

Page: 3 of 7



Page:

4 of 7

## **Process Preventive Control: Critical Control Point Summary**

Proc	ess Control Step:	CCP Metal Detection (CCP 1 Bulk Metal Detector)
Haza	rd(s):	Metal
	meters, values, or al limits:	Functioning metal detector that can detect 1.5 Fe, 1.8 NF, 2.0 SS, and 2.0 Al mm spheres.
	What:	All bulk product passes through an operating metal detector and packaged product has gone through a metal detector at supplier's facility.
Monitoring:	How:	Monitor according to SOP <u>6.3-01 CCP Monitoring: Metal Detector</u> .
Monit	Frequency:	Conduct the monitoring prior to startup if exceeded 24 hours. Monitoring will occur after each vessel.
	Who:	Permanent trained staff.
Corre	ective Action:	Operator notifies supervisory personnel. Supervisory personnel complete corrective action according to SOP <u>6.3.4-03 HACCP Deviation: Metal Detector</u> .
Verification:	Monitoring Activity:	Supervisory personnel verify the monitoring activity through record review within 7 days of record generation. The review is indicated by a signature and date.
Verific	Food Safety Plan:	The food safety plan is incorporated into annual internal audits. The plan, CCP selection, and CL determination are reviewed/assessed annually.
	Critical Control Point:	CCP selection is reevaluated annually in light of emerging technological and regulatory information. This review is documented on record <u>Validation</u> .
Validation:	Critical Limits:	CL or parameter selection is reevaluated annually in light of emerging technological and regulatory information. This review is documented on record <u>Validation</u> .
۶۷	Scientific & Tech- nical Information:	Decisions for the hazard analysis, CCP selection, and CL selection have been based on scientific and technical information. This information may be accessed through Basic Safe/Corporate P&P/Food Safety/References.
Reco	ords:	Monitoring Activity: <u>6.3-01.1 Critical Control Point: Bulk Loading Metal Detector</u> . Records are retained for three years.

Procedural documentation is available on Basic Safe through direct links. This documentation will be made available to customers upon request.

Supp	lv-Chair	Program
Jupp	iy-Chan	FIOSIAIII

Hazards Requiring a Supply -Chain-Applied Control:	Hazard analysis determined that incoming bulk and packaged sugar requires a supply -chain-applied control for metal contamination. In the absence of a supplier-applied control, there could be the potential for hazardous metal contamination based on sugar processing equipment and facilities. Some of this product might be ware- housed and distributed directly to the customer without further processing.
Preventive Controls Applied by Supplier:	Approved suppliers continually monitor sugar by passing all product through metal detectors or magnets. These actions are documented in a supplier's records.
Verification Activities:	Based on supplier performance and the low risk associated with material, a 2nd or 3rd party audit by a qualified auditor is used to verify supplier's control of metal haz- ard. Preference is given to GFSI certification.
Verification Procedures:	The Quality Assurance Team will verify that suppliers have the appropriate documen- tation on an annual basis. These verification activities include: an onsite audit(s) per- formed by a third-party audit and report provided based on their certification stand- ard. Verify the facility's controls for metal detection and removal. A qualified individ- ual (QI) will conduct onsite audits, third-party auditors or company affiliated PCQI's. Must retain FDA-required records and have access within 24 hours of request from regulatory inspectors. Lastly, supplier must inform the facility of any changes to the product composition or if it includes any allergens. Refer to the Food Safety & Quality Assurance Manual, Supplier Approval Policy.
Verification Records:	Supplier audit report made <u>available</u> – Beet Sugar.
Receiving Facility Procedures:	Receiving facility only accepts product from approved suppliers as outlined on the <u>Approved Supplier Registry</u> . Facilities hold and do not accept shipments from unapproved suppliers. If this occurs, it is only permitted during emergency situations provided facilities notify quality assurance and obtain and review, third-party audits. If not, temporary approval may be granted through a second-party audit from a company-affiliated PCQI.
Receiving Records:	Inspection and receipt records are maintained locally.

	Amendments
06/03/2022	Updated the Supply chain program to match the supplier approval policy.
08/17/2020	Removed all hyperlinks to each individual hazard analysis (one link for hazard analysis).
08/10/2020	Updated the Process Preventive Control: CCP Summary section Monitoring: Frequency. "Conduct the monitoring prior to startup if exceeded 24 hours. Monitoring will occur after each vessel."
03/20/2020	Updated Supply Chain links to the NSM website for the Approved Supplier list and beet sugar reports.
03/18/2020	Removed Jeremy Adamson from Corporate HACCP Coordinator.
08/14/2019	Updated the Prerequisite Program to match the new Quality Manual.
03/07/2019	Added Joe Toste and Mike McClain with AIB Training. It is accessible online with AIB.
04/23/2018	Removed Bill Enderson as Local HACCP coordinator and added Lacey Messing Removed Bill Enderson from Food Safety Team and added Lacey Messing and Kelly Malone
07/05/2017	Added a magnet to the flow diagram prior to CCP metal detection per facility's request. Added local lead contact, Ricardo Cardina, and local phone number.
06/14/2016	Removed the local organizational chart. Developed the Supply-Chain Program and added links to the corporate recall procedure.
05/13/2016	Changed the Org Chart to maintenance staff instead of special projects. Added PCQI train- ing for Bill Enderson.
04/23/2015	Corporate SOPs were modified. Quality assurance will verify documentation during inter- nal audits rather than verifying one lot per week. Added Mike McClain to the team to re- place Mike Palser.
09/02/2014	Corporate standardization of SOPs. SOPs and blank record copies have been moved from the HACCP plan to the corporate intranet.
05/30/2014	Screens were added to bulk loadout lines. The flow diagram was modified to include changes. Updated SOP and record to facility screen inspections.

	Training Log
Pending Date	Joe Toste and Mike McClain pending certificate.
08/26/2016	Lacey Messing completed FSPCA Preventive Controls for Human Food course.
01/21/2016	Kelly Malone completed FSPCA Preventive Controls for Human Food course.
11/01/2011	Joe Toste attended a two-day HACCP course.