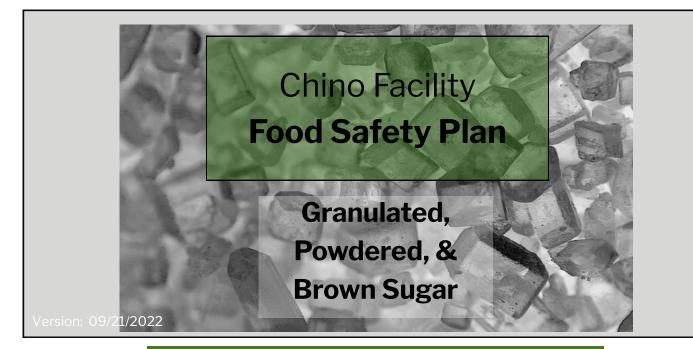
## NATIONAL SUGARMARKETING



Plan Contents:	
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Product Description: Granulated Sugar	3
Flow Diagram: Granulated	4
Product Description: Powdered Sugar	5
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Corporate Recall Plan (NSM Website)	



	L				
	Facility Name:	Chino Facility			
	Facility Address:	5150 Edison Ave., Chino, G	CA 91710		
	Phone:	(909) 627-7472			
	Plant/Facility Manager:	Jose Callejon			
ation	Local HACCP Coordinator:	Jose Callejon			
orm	HACCP Coordinator (PCQI):	Mia Burns			
y Inf	Number of Employees:	<10 Full Time Employees			
Facility Information	Temporary Employees:	Yes			
Ĕ	Facility Description:	sion installation for packa trailer and boxcar shipme	ged to bulk c nts. After stc bulk truck. B	conversion. This prage or conver oxcar shipment	tion with a product conver- s facility can receive dry van sion, this facility ships prod- ts are utilized to transport ssing.
	Products:	Granulated Sugar, Powde	orod Sugar &	Brown Sugar	
	Third Party Audit Standard:	SQF Food Safety Code: S	<b>-</b>	-	
	Certification Body:	CICS Americas			
	Import Capability:	Yes, Sucden Americas is t	the importing	g agent for imp	ort cane sugar.
fety	Ingredients/Raw Materials:	Granulated sugar, powder fineries.	red sugar, an	d brown sugar	from beet and cane re-
	Packaging:	This facility does not pack	kage product	IS.	
Food Sa		1. Employee Training	2. Personne	el Practices	3. Integrated Pest Management
Foo	Duran minita	4. Equipment Calibra- tion: Food Safety	5. Facility & Maintenand	Equipment Ce	6. Cleaning, Sanitation, and Waste Manage- ment
	Prerequisite Programs :	7. Water & Air Monitor- ing	8. Physical Control	Contaminant	9. Product Storage & Warehousing
		10. Product Distribution	11. Allergen	Management	12. Chemical Control
		13. Supplier Approval	14. Visitors		
	Jose Callejon	Warehouse Manager	<u> </u>	Preventive Con	trols Qualified Individual
E	Claritza Ramirez	Office Clerk	I	n-house trainin	ıg.
Team	Daniel Hernandez	Warehouse Lead	I	n-house trainin	ıg.
	Mia Burns	Quality Assurance Specia	list	Preventive Con	trols Qualified Individual
	L	- •			



	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. Sugar products are typically classified as low-risk, shelf-stable products.
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 gen- eral public, including high risk groups.
Shelf Life:	5 years, 70%RH, 90°F
Labeling Instructions:	No labeling requirements for consumer safety.
FDA Classification:	GRAS <u>21 CFR 184.1854</u>
Storage:	Packaged product is warehoused in an ambient environment.
Distribution:	Granulated sugar is distributed in bulk or packaged form. Bulk sugar is transported by truck. Packaged sugar is distributed by trailer.

Technical Information		
Chemical Formula:	$C_{12}H_{22}O_{11}$	
Water Activity (a <sub>w</sub> ):	0.22 <sup>1</sup>	
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. Classified as low risk by the ICMSF 2005 <sup>6</sup> .	

	Preventive Controls
Process Control:	CCP Metal Detection
Allergen Control:	None
Sanitation Control:	None
Supply-Chain Control:	Approved Supplier for Sugar Ingredient and Third-Party Audit Report to Verify Metal Detection.
Water Activity Values of Select Fo	and Ingredients and Products

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

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

<sup>4</sup> International Society of Beverage Technologists (ISBT)

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

<sup>6</sup> International Commission for the Microbiological Specifications for Food: 12 Sugar, Syrups, and Honey (2005).





General Product Information			
Product Name:	Confectioner's Powdered Sugar		
Technical Name:	Powder Sugar		
Product Description:	Pulverized or ground granulated sugar with corn starch for anti-caking properties.		
Ingredients:	Crystalline sucrose and corn starch		
Intended Use:	This product is used as an ingredient in many food products and functions as a sweetener.		
Intended Consumer:	Powdered sugar is sold as retail or distributed to food processors that provide products to the gen- eral public, including high risk groups.		
Shelf Life:	2 years		
Labeling Instructions:	No labeling requirements for consumer safety.		
FDA Classification:	GRAS <u>21 CFR 184.1854</u>		
Storage:	Packaged product is warehoused in an ambient environment.		
Distribution:	Powder sugar is distributed by trailer or boxcar.		

Technical Information		
Chemical Formula:	$C_{12}H_{22}O_{11} + C_{12}H_{48}O_{20}$	
Water Activity (a <sub>w</sub> ):	0.59 (Light) - 0.65 (Dark) <sup>1</sup>	
Moisture:	Less than 3%	
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. Classified as low risk by the ICMSF 2005 <sup>6</sup> .	

	Preventive Controls
Process Control:	None
Allergen Control:	None
Sanitation Control:	None
Supply-Chain Control:	None

<sup>&</sup>lt;sup>1</sup> Water Activity Values of Select Food Ingredients and Products



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

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

<sup>&</sup>lt;sup>4</sup> International Society of Beverage Technologists (ISBT)

<sup>&</sup>lt;sup>5</sup> GMA Canner's Standard

<sup>&</sup>lt;sup>6</sup> International Commission for the Microbiological Specifications for Food: 12 Sugar, Syrups, and Honey (2005).



	General Product Information
Product Name:	Brown Sugar (Light and Dark)
Technical Name:	Brown Sugar
Product Description:	Classified granulated sugar enrobed in invert sugar (coating syrup) or cane molasses.
Ingredients:	Sucrose, invert sugar, and cane molasses
Intended Use:	This product is used as an ingredient in many food products and functions as a sweetener.
Intended Consumer:	Brown sugar is sold as retail or distributed to food processors that provide products to the general public, including high-risk groups.
Shelf Life:	18 months
Labeling Instructions:	No labeling requirements for consumer safety.
FDA Classification:	GRAS <u>21 CFR 184.1854</u>
Storage:	Packaged product is warehoused in an ambient environment.
Distribution:	Brown sugar is distributed by trailer or boxcar.

	Technical Information
Chemical Formula:	$C_{12}H_{22}O_{11} + C_{12}H_{24}O_{12}$ (Light) or $C_{12}H_{22}O_{11} + C_6H_{12}NNaO_3S$ (Dark)
Water Activity (a <sub>w</sub> ):	0.311
Moisture:	0.5% 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. Classified as low risk by the ICMSF 2005 <sup>6</sup> .

	Preventive Controls
Process Control:	None
Allergen Control:	None
Sanitation Control:	None
Supply-Chain Control:	None

<sup>&</sup>lt;sup>1</sup> Water Activity Values of Select Food Ingredients and Products



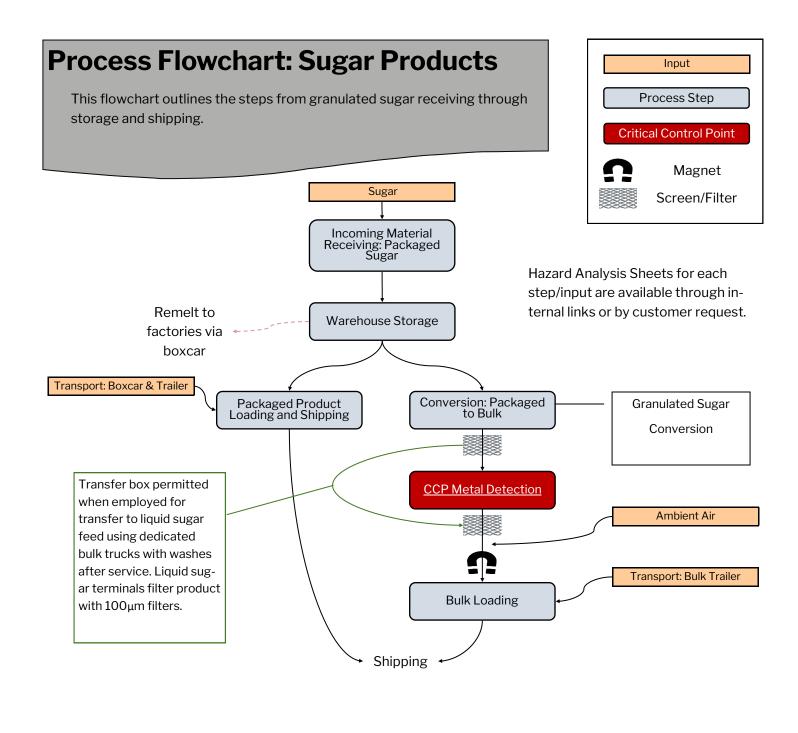
<sup>&</sup>lt;sup>2</sup> Microbial Risk Assessment: Pathogen Challenge Evaluations of Granulated and Liquid Sugar

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

<sup>&</sup>lt;sup>4</sup> International Society of Beverage Technologists (ISBT)

<sup>&</sup>lt;sup>5</sup> GMA Canner's Standard

<sup>&</sup>lt;sup>6</sup> International Commission for the Microbiological Specifications for Food: 12 Sugar, Syrups, and Honey (2005).



Product Conveying Equipment & Hazard Analysis

Pneumatic Blowing

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

Proc	ess Control Step:	CCP Metal Detection (Conversion Station)
Hazard(s):		Metal
Critical limits:		Functioning metal detector that can detect 1.5 Fe, 1.8 NF, 2.0 SS, and 2.0 Al mm spheres.
	What:	All product passes through an operating metal detector.
oring:	How:	Monitor according to SOP <u>6.3-01 CCP Monitoring: Metal Detector</u> .
Monitoring:	Frequency:	Conduct the inspection at the beginning of a startup, a shutdown of two hours or longer, at the end of a production run (no following shift), and at least every 2.5 hours of operation. Bulk detectors are tested prior to startup and after each vessel.
	Who:	Trained warehouse operator.
Corrective Action:		Operator notifies supervisory personnel. Supervisory personnel complete corrective action per SOP <u>6.3.4-03 HACCP Deviation: Metal Detector</u> .
Verification:	Monitoring Activity:	Supervisory staff verify the monitoring activity through record review within 7 days of record generation indicated by a signature and date.
Verifi	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; documented on record <u>7.1-03 Validation</u> .
Validation:	Critical Limits:	CL or parameter selection is reevaluated annually in light of emerging technological and regulatory information; documented on record <u>7.1-03</u> Validation
	Scientific & Technical:	Decisions for the hazard analysis, CCP selection, and CL selection have been based on scientific and technical information. This information is posted to the corporate intranet and may be accessed through this <u>link</u> .
		Monitoring Activity: <u>6.3-01.1 Critical Control Point: Bulk Loading Metal</u> <u>Detector</u> . Records are retained for three years.

Procedural documentation is available on the corporate intranet through direct links or through the quality assurance tab. This documentation will be made available to customers upon request.

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Supply-Chain Program	
Hazards Requiring a Supply-Chain-Applied Control:	Hazard analysis determined that incoming 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 contami- nation based on sugar processing equipment and facilities. Some of this product might be warehoused and distributed directly to the customer without further processing.
Preventive Controls Applied by Supplier:	Approved suppliers pass 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 con- trol of metal hazard. Preference is given to GFSI certification.
Verification Procedures:	A copy of the audit is requested from the supplier annually or every three years if the supplier certifies to the FSSC 22,000 standard. The vice president of quality reviews certification audits and approves suppliers based on the onsite audit and documentation requests. System assurances include a two-step verification procedure. First, Corporate office only sources product from approved suppliers. Second, receiving facilities are given access to an approved supplier register which is utilized as a product acceptance criterion. Both measures should ensure that receiving facilities only receive sugar products from approved suppliers. Full documentation can be provided within 24 hours of an official request.
Verification Records:	NSM's Partner, Sucden Americas, maintains onsite audit records per their FSVP. Supplier audit reports are made available from NSM upon request.
Receiving Facility Procedures:	Receiving facility only accepts product from approved suppliers as out- lined on the Approved Supplier Register. This register is located under the Quality Assurance Tab of the intranet. Facilities hold and do not accept shipments from unapproved suppliers. If this occurs, facilities notify the quality assurance director for disposition.
Receiving Records:	Inspection and receipt records are maintained locally.

	Amendments
03/18/2024	Included Jose Callejon's PCQI training.
09/21/2022	Removed Jeremy Adamson as PCQI and added Mia Burns. Added product de- scription for powdered and brown. Granulated Sugar Conversion section to flowchart.
01/10/2020	Added Claritza Ramirez to team and removed Janet Rocha. Added Mia Burns to Team and updated training log with Mia's certification. Added transfer box line and transfer requirements.
07/01/2019	Modified warehouse address as equipment was moved from the Yorba address to the Edison address. Reverted links from Basicsafe to the intranet.
09/06/2016	Renamed the HACCP plan to Food Safety Plan. Removed the local organiza- tional chart. Developed the Supply-Chain Program and added links to the corpo- rate recall procedure. The hazard analyses have been uploaded to the corporate intranet and are available through links within the food safety plan. Removed Juan Ruiz from the HACCP team and added Daniel Hernandez.
12/22/2014	Corporate standardization of SOPs. SOPs and blank record copies have been moved from the HACCP plan to the corporate intranet. Updated the ORG chart due to reorganization efforts.
01/10/2013	Review of current plan and modification of facility description to include pack- aged to bulk product conversion. Updated HACCP team by removing Antonio Valentin and Jorge Angeles and replacing them with Tamara Ayala and Leonar- do Hugo.
	Training Log
03/18/2024	Included Jose's PCQI training.
03/10/2022	Mia Burns completed HACCP training refresher course.
03/13/2019	Mia Burns completed FSPCA Preventive Controls for Human Food course.
01/21/2016	Jeremy Adamson completed FSPCA Preventive Controls for Human Food course.
08/21/2015	Jose Callejon attended the corporate standardization meeting to cover all top- ics related to HACCP and sugar products.
03/14/2015	Jeremy Adamson completed Three Day: Practical Food Safety and HACCP Workshop.