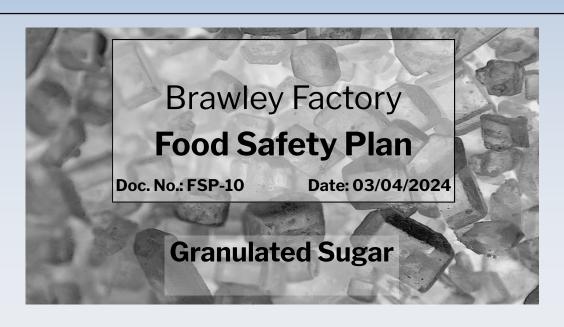


Spreckels Sugar Company, Inc.





Plan Contents:		
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Flow Diagram: Granulated Sugar (GMP Areas & RR)		
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Corporate Recall Plan (NSM Website) NSM	Website	
Plan Approval		
Facility Management: Atten Oleo Date: 3/18/	24	
Facility Management: # Date: 3/18/ Local HACCP Coordinator: Date: 3/18/	24 24	

Facility Name:

Facility Address:

Daniel McCullough

Dan Dumas

Jaime Centeno

	1	,	• • •		
Facility Information	Phone:	(760) 498-2434			
	Plant/Facility Manager:	Steve Olson			
	Local HACCP Coordinator:	Derek Binder			
	HACCP Coordinator (PCQI):	Derek Binder			
y Inf	Number of Employees:	350			
acilit	Temporary Employees:	Yes			
ις I	Facility Description:	The Brawley facility was condomestically grown sugar I conditioned and stored in Exars and trailers or package bulk container (FIBC) superforward warehouses or directions.	beets. This facility problems. Sugar is sc oulk silos. Sugar is sc ed into 50 lb. bags ar rsacks (totes). Bags a	oduces g reened a nd 2000	granulated sugar, which is and loaded into bulk rail- lb. flexible intermediate
	Products:	Granulated Sugar			
	Third Party Audit Standard:	SQF Food Safety Code: Food Manufacturing			
	Certification Body:	CICS Americas			
İ	Import Capability:	Facility can import raw sugar (non-food) on a case-by-case basis for refining.			
Food Safety	Ingredients/Raw Materials:	Granulated sugar extracted from domestic sugar beets.			
S	Packaging:	This facility packages product into supersacks and 50 lb. bags.			
0		1. Employee Training	2. Personnel Practices		3. Integrated Pest Management
ഥ	Prerequisite	4. Equipment Calibration: Food Safety	5. Facility & Equipment Nance	Mainte-	6. Cleaning, Sanitation, and Waste Management
	Programs:	7. Water & Air Monitoring	8. Physical Contaminant	Control	9. Product Storage & Ware- housing
		10. Product Distribution 13. Supplier Approval	11. Allergen Managemen 14. Visitors	nt	12. Chemical Control
	Tony Malagon	Technical Services Manager	P	CQI, HAC	CP Certified (Secondary)
	Derek Binder	Warehouse Manager	PCQI, HACCP Certified (Primary)		
٤ ا	Martha Zaragoza	Food Safety Specialist	HACCP Certified (Secondary)		
	Steve Olson	District Manager	PCQI, HACCP Certified (Secondary)		
Team	Carlos Aragon	Maintenance Manager	In-House Training		raining
F	Juan Patron	Production Manager	PCQI, In-House Training		ouse Training
	Roger Colmenero	Agriculture Manager	In	-House T	raining
	l		_	–	

Assistant Maintenance Manager

Director of Technical Services

PM Planner/ Scheduler

Spreckels Sugar Company, Inc., Brawley Factory

395 w. Keystone Rd., Brawley, CA, 92227

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In-House Training

PCQI, HACCP Certified

In-house Training, PCQI Certified



Product Description

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 distributed for further processing to food processors that provide products to the general public, including high risk groups.	
Shelf Life:	2 years, 70%RH, 90°F	
Labeling Instructions:	No labeling requirements for consumer safety or bioengineering disclosure (validated refinement).	
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 rail or bulk truck. Packaged sugar, bags and totes, is distributed by trailer.	

Technical Information		
Chemical Formula:	C ₁₂ H ₂₂ O ₁₁	
Water Activity (a _w):	0.221	
Moisture:	0.04% Max.	
Sulfites:	2 to 6 ppm. Must be less than 10 ppm for regulatory labeling.	
Microbiological:	Will not support the growth of vegetative pathogens. ^{2,3} Meets ISBT ⁴ and NFP ⁵ standards for use in carbonated beverages and canned foods. Classified as low risk by the ICMSF 2005 ⁶ .	

Preventive Controls		
Process Control:	CCP Metal Detection	
Allergen Control:	None	
Sanitation Control:	None	
Supply-Chain Control:	None	

¹ Water Activity Values of Select Food Ingredients and Products



² Microbial Risk Assessment: Pathogen Challenge Evaluations of Granulated and Liquid Sugar

³ Fate of Bacterial Pathogens and Indicator Organisms in Liquid Sweeteners

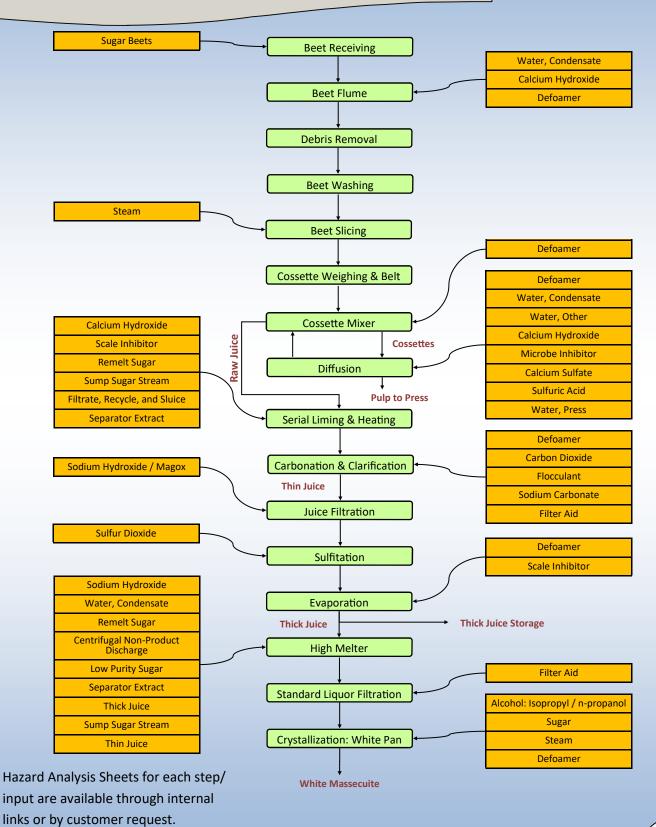
⁴ International Society of Beverage Technologists (ISBT)

⁵ GMA Canner's Standard

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

Process Flowchart: Beets to Massecuite

This flowchart outlines the factory mill, including slicing, extraction, purification, and crystallization. The separation in diagrams is based on product risk and resulting hygienic zoning (GMP). The factory process (outlined below) precludes any food safety hazards identified prior to crystallization. This flowchart only follows the flow of food products.



Process Flowchart: Granulated Sugar Distribution

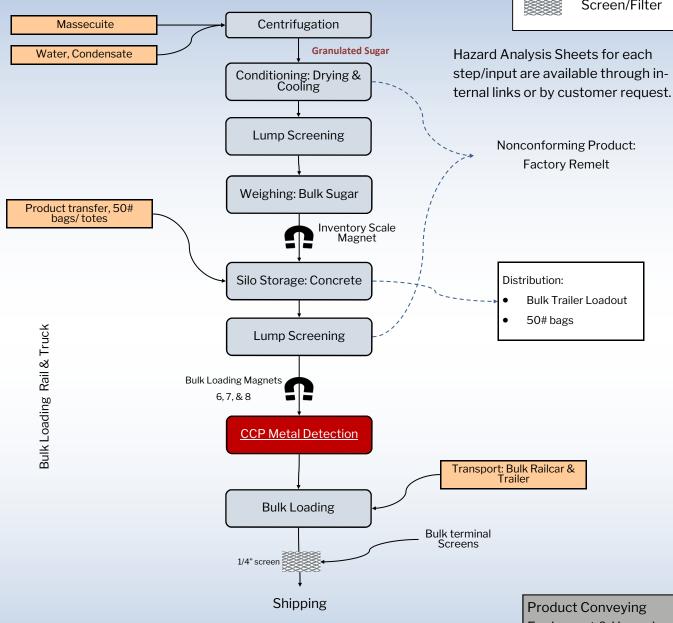
This flowchart outlines the steps from massecuite through rail loadout.

Process Step

Critical Control Point

Magnet

Screen/Filter



Product Conveying Equipment & Hazard Analysis

- Bucket Elevator
- Screw Conveyor

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Process Flowchart: Granulated Sugar Distribution

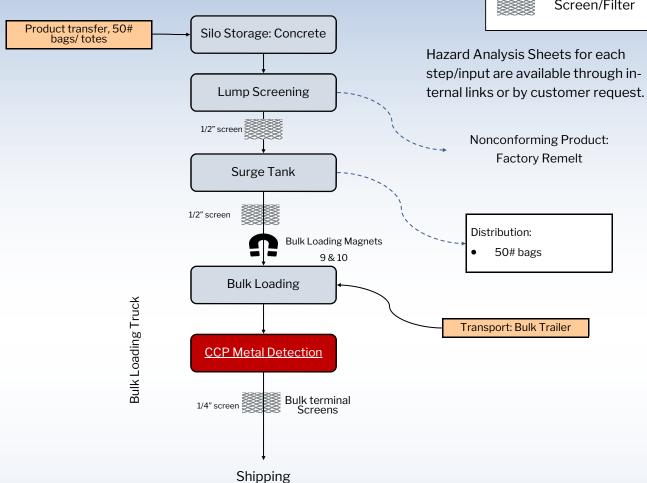
This flowchart outlines the steps from Silo Storage: Concrete through Bulk Truck.

Process Step

Critical Control Point

Magnet

Screen/Filter



Product Conveying Equipment & Hazard Analysis

- Bucket Elevator
- Screw Conveyor

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Process Flowchart: Granulated Sugar Distribution

This flowchart outlines the steps from Silo Storage: Concrete through tote line.

Process Step

Critical Control Point

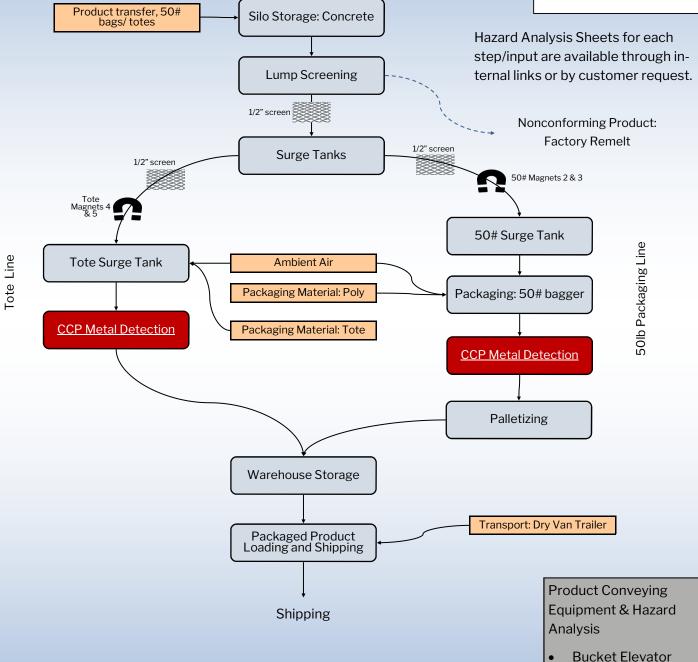
Magnet

Screen/Filter

Screw Conveyor

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Process Preventive Control: Critical Control Point Summary

Process Control Step:		CCP Metal Detection
Hazard(s):		Metal
Critical limits:		Functioning metal detector that can detect and reject 1.5 Fe, 1.8 NF, 2.0 SS, and 2.0 Al mm test pieces.
Monitoring:	What:	All product passes through an operating metal detector.
	How:	Monitor according to Metal Detector Monitoring Procedure.
	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 hours of operation (Packaged Product), at the start and finish of every compartment (Railcars), and first and last hatch (bulk trailer). Bulk detectors are tested prior to startup and after each vessel.
	Who:	Trained warehouse operator (qualified individual).
Corrective Action:		Operator notifies supervisory personnel. Supervisory personnel place affected product on hold, complete corrective action and determine final disposition.
Verification:	Monitoring Activity:	Supervisory staff verify the monitoring activity through record review within 7 days of record generation 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; documented on record 7.1-03 Validation.
Validation:	Critical Limits:	CL or parameter selection is reevaluated annually in light of emerging technological and regulatory information; documented on record 7.1-03 Validation.
	Scientific & Technical:	Decisions for the hazard analysis, CCP selection, and CL selection have been based on scientific and technical information. This information is available upon request.
Records:		Monitoring Activity: Documented in electronic or physical records. Records are retained for two years.

Procedural documentation is available to customers upon request.



Amendments		
08/11/2017	Reviewed, no changes.	
09/11/2017	Reviewed for hanger bearing material issue.	
06/21/2018	Reviewed yearly, no changes.	
08/20/2019	Annual review, added ammonium bisulfite and outside air filtered by socks, changed truck CCP to each.	
09/04/2020	Reviewed yearly, no changes	
3/31/2021	Updated Rotex screens used. Noted SO2 as a biocide. Included maximum Warehouse Time in shelf life statement.	
10/05/2022	Modified formatting for multi-facility alignment. Hazard Analysis files have been separated and maintained independently.	
12/06/2022	Reviewed, made final draft.	
12/07/2022	Updated CCP Critical Limit to include test piece rejection, updated document retention from 3 to 2 years, and updated Corrective Action to include product hold.	
09/21/2023	Updated due to personnel changes. Steve Olson the district manager, removal of Shelby Drye, and addition or Tony Malagon and Dan Dumas along with training records and Sammy McClaren completing PCQI and HACCP.	
10/25/2023	Removed Sammy McClaren from Food Safety team.	
12/06/2023	Added Martha Zaragoza to the Food Safety team	
1/22/2024	Added Roger Colmenero as Ag. manager	
03/01/2024	Updated training record	

	Training Log
01/09/2020	Martha Zaragoza completed Advanced HACCP Certification
Spring 2023	Sammy McClaren completed his HACCP Certification
5/31/2022	Steve Olson completed his HACCP certification
2/15/2018	Juan Patron completed FSPCA course for PCQI for human food
2/15/2018	Steve Olson completed FSPCA course for PCQI for human food
6/10/2016	Derek Binder & Tony Malagon completed FSPCA course for PCQI for human food
Spring 2016	Derek Binder Completed his HACCP certification

