

QTRO-POWDERA Revision Number 2

# SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

Revision date 04-Aug-2021 Supersedes Date: 24-Feb-2021

1. Identification				
1.1. Product identifier				
Product Name	QTRO-POWDERA			
Other means of identification Other information	Not applicable			
1.2. Relevant identified uses of the s	substance or mixture ar	nd uses advised aga	<u>inst</u>	
Recommended use Restrictions on use	Hot-melt adhesives No information available	,		
1.3. Details of the supplier of the sa	fety data sheet			
<b>Responsible Party</b> M&R Printing Equipment, Inc. 440 Medinah Rd. Roselle, Illinois 60172-2329 USA Phone number: (800) 796-6431				
E-mail	info@mrprint.com			
1.4. Emergency telephone number Emergency Telephone	<b>Chemtrec</b> Within US Outside US and Canad		41-3637	
2. Hazard(s) identification				
2.1. Classification of the substance	or mixture			
Combustible dust			-	
<b>Hazards not otherwise classified (H</b> Not applicable	NOC)			
2.2. Label elements	EMERGEN	CY OVERVIEW		
Warning		-		
May form combustible dust concentrat	tions in air			
Appearance Powder	Physical state	Solid	Odor Characteristic	

## QTRO-POWDERA

0 % of the mixture consists of ingredient(s) of unknown toxicity

### 2.3. Other Information

Contact with product at elevated temperatures can result in thermal burns.

### 3. Composition/information on ingredients

#### 3.1. Substances

Not applicable.

### <u>Mixture</u>

Chemical name	CAS No.	Weight-%		
Silica gel, precipitated, crystalline free	112926-00-8	1 - <5		
*The exact percentage (concentration) of composition has been withheld as a trade secret				

### 4. First-aid measures

#### 4.1. Description of first aid measures

Inhalation	<b>Molten</b> . Move to fresh air in case of accidental inhalation of vapors or decomposition products. <b>Solid:</b> . Do not breathe dust.	
Eye contact	<b>Solid:</b> . In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. <b>Molten</b> . Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Contact with molten materials requires immediate medical assistance.	
Skin contact	<b>Solid:</b> Wash skin with soap and water. <b>Molten</b> After contact with molten product, cool skin area rapidly with cold water. For severe burns, immediate medical attention is required. Do not remove clothing if adhering to skin. Removal of solidified molten material from skin requires medical assistance. Do not try to removed solidified material from the skin.	
Ingestion	Get immediate medical advice/attention. Do not induce vomiting without medical advice.	
4.2. Most important symptoms and	effects, both acute and delayed	
Symptoms	Contact with molten substance may cause severe burns to skin and eyes.	
3. Indication of any immediate medical attention and special treatment needed		
Note to physicians	Burns caused by molten material must be treated clinically. Treat any burns as thermal burns, after decontamination.	

## 5. Fire-fighting measures

#### 5.1. Extinguishing media

Suitable Extinguishing Media	CO2, dry chemical, dry sand, alcohol-resistant foam. Water spray.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.

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Unsuitable extinguishing media	Full water jet. Danger of dust explosions. Do not use straight streams.		
5.2. Special hazards arising from th	e substance or mixture		
Specific hazards arising from the chemical	The melted product can cause severe burns. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables. Dusts or fumes may form explosive mixtures in air. This material can accumulate static charge by flow or agitation and can be ignited by static discharge.		
Hazardous combustion products	No information available.		
Explosion data Sensitivity to mechanical impac	t None.		
Sensitivity to static discharge	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.		
5.3. Advice for firefighters			
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Stop leak if you can do it without risk. Evacuate personnel to safe areas. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid contact with hot, molten product.
Other information	Refer to protective measures listed in Sections 7 and 8. Where possible allow molten material to solidify naturally.
6.2. Environmental precautions	
Environmental precautions	Keep out of drains, sewers, ditches and waterways. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.
6.3. Methods and material for contai	nment and cleaning up
Methods for containment	Prevent dust cloud. <b>Molten</b> . Cover with dry sand/earth. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Use personal protective equipment as required. <b>Solid:</b> . Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. <b>Molten</b> . Where possible allow molten material to solidify naturally. Take up mechanically, placing in appropriate containers for disposal.
Reference to other sections	See section 8 for more information. See section 13 for more information.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling	Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid generation of dust. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Prevent dust accumulation (to minimize explosion hazard). Airborne dusts are potentially explosive. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Avoid contact with skin and eyes. Wash thoroughly after handling. Facilities for quickly drenching the body should be provided within the immediate work area for emergency use where there is a possibility of exposure. Empty containers pose a potential fire and explosion hazard. Do not cut,
	puncture or weld containers.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage ConditionsStore in a cool, dry area away from potential sources of heat, open flames, sunlight or other<br/>chemicals. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot<br/>lights, electric motors and static electricity). Keep container closed when not in use.<br/>Observe all National Fire Protection Association (NFPA) Codes, which pertain to the<br/>specific local conditions of storage and use, including NFPA 654.

Recommended storage temperature Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

7.3 References to other sections

Reference to other sections	Section 10: STABILITY AND REACTIVITY
	Section 13: DISPOSAL CONSIDERATIONS

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Silica gel, precipitated,	-	(vacated) TWA: 6 mg/m <sup>3</sup>	-
crystalline free		TWA: 20 mppcf	
112926-00-8		: (80)/(% SiO2) mg/m <sup>3</sup> TWA	

Chemical name	Argentina	Brazil	Chile	Colombia
Silica gel, precipitated,	TWA: 10 mg/m <sup>3</sup>	-	TWA: 5.3 mg/m <sup>3</sup>	-
crystalline free				
112926-00-8				

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Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Silica gel, precipitated, crystalline free 112926-00-8	-	TWA: 10mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>

#### 8.2. Exposure controls

#### Appropriate engineering controls

**Engineering controls** Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Consult ACGIH ventilation manual, NFPA Standard 91 and NFPA Standard 654 for design of exhaust system and safe handling. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof ventilating equipment. Use spark-proof tools and explosion-proof equipment.

#### Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles. Avoid contact with eyes.
Hand protection	Heat resistant gloves are recommended when handling molten materials. <b>Solid:</b> . For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
Skin and body protection	Long sleeved clothing. Impervious clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General hygiene considerations	Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust. Avoid contact with skin, eyes or clothing. Wash hands and face before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended.

### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold

Property pH pH (as aqueous solution) Melting point / freezing point Initial boiling point and boiling Solid Powder White Characteristic No information available

<u>Values</u> No data available No data available 110 - 120 °C / 230 - 248 °F No data available Remarks • Method None known None known None known None known

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range		
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	>350 °C	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
9.2. Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Solvent content (%)	No information available	
Solid content (%)	No information available	
Softening Point	No information available	
Molecular weight	No information available	
VOC Content (%)		No information available
Density	>1 g/cm <sup>3</sup>	
Bulk density	No information available	
10 Stability and reactivity		
10. Stability and reactivity		
10.1. Reactivity		
Reactivity	No information available.	
10.2. Chemical stability		
10.2. Chemical Stability		
Chemical stability	Stable under normal conditions.	
-		

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid

static discharge (electrostatic discharge). Extremes of temperature and direct sunlight. Do not add water or other volatile material to molten adhesive. Under dusty conditions avoid all sources of ignition, including sparks and static electricity.

#### 10.5. Incompatible materials

Incompatible materials Strong oxidizing agents, strong acids, and strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapors

11. Toxicological information			
11.1. Information on toxicological	11.1. Information on toxicological effects		
Product Information			
Inhalation	Based on available data, the classification criteria are not met. Inhalation of dust in high concentration may cause irritation of respiratory system.		
Eye contact	Based on available data, the classification criteria are not met. Dust contact with the eyes can lead to mechanical irritation.		
Skin contact	Based on available data, the classification criteria are not met. Contact with dust can cause mechanical irritation or drying of the skin.		
Ingestion	Based on available data, the classification criteria are not met.		
Symptoms related to the physical,	chemical and toxicological characteristics		
Symptoms	No information available.		
<u>Acute toxicity</u> Numerical measures of toxicity			

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silica gel, precipitated,	LD50 >10000 mg/Kg (Rattus)	>5000 mg/kg (Oryctolagus	>2.2 mg/L (Rattus) 1 h
crystalline free		cuniculus)	
112926-00-8			
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposure	<u>e</u>
Skin corrosion/irritation	Based on available data, t	he classification criteria are not m	net.
Serious eye damage/eye irritati	on Based on available data, t	he classification criteria are not m	net.
Respiratory or skin sensitizatio	n Based on available data, t	he classification criteria are not m	net.
Germ cell mutagenicity	Based on available data, t	he classification criteria are not m	net.
Carcinogenicity		he classification criteria are not m	net.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Silica gel, precipitated,	-	Group 3	-	-
crystalline free				
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IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Other adverse effects	No information available.
Interactive effects	No information available.

### 12. Ecological information

### 12.1. Toxicity

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Silica gel, precipitated,	-	CL50 (96h) >=10000 mg/l	-	CE50 (24h) >=1000 mg/L
crystalline free		(Brachydanio rerio)		(Daphnia magna)
112926-00-8				

#### 12.2. Persistence and degradability

Persistence and degradability	No information available.
12.3. Bioaccumulative potential	
Bioaccumulation	There is no data for this product.
12.4. Mobility in soil	
Mobility	No information available.
Other adverse effects	
Other adverse effects	No information available.

## 13. Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues/unused	It is the responsibility of the waste generator to determine the toxicity and physical
products	properties of the material generated to determine the proper waste identification and
	disposal methods in compliance with applicable regulations.

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**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

#### 14. Transport information

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

#### 15. Regulatory information

#### International Inventories

TSCA	Listed
DSL	Listed

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

#### US Federal Regulations

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Fire Hazard.

#### Europe

#### Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation. This document is based on the information given to us by our own suppliers at the date of this document.

#### SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### 16. Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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TWA Ceiling	TWA (time-weighted average) Maximum limit value	STEL *	STEL (Short Term Exposure Limit) Skin designation	
Prepared By	Product Safety & Re	Product Safety & Regulatory Affairs.		
Revision date	04-Aug-2021	04-Aug-2021		
Revision note	No information avail	able.		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet