

SAFETY DATA SHEET

QUENCH

1. Product and Company Identification

Product Code: Z-QUENCH
Product Name: QUENCH
Trade Name: QUENCH
Company Name: Stoller
9090 Katy Freeway
Suite 400
Houston, TX 77024
Phone Number:
1 (713)461-1493

Web site address: www.stollerusa.com
Email address: compliance@stollerusa.com

Emergency Contact: CHEMTREC, In the US and Canada call 1 (800)424-9300
CHEMTREC, From other countries call +1 (703)527-3887

Information: 1 (800)539-5283

Intended Use: For agricultural use only

Synonyms: Chelated micronutrient solution of cobalt, iron and nickel.

2. Hazards Identification

Serious Eye Damage/Eye Irritation, Category 2B

Acute Toxicity: Skin, Category 5

Acute Toxicity: Inhalation, Category 5

Acute Toxicity: Oral, Category 4



GHS Signal Word: **Warning**

GHS Hazard Phrases: H302 - Harmful if swallowed.
H313 - May be harmful in contact with skin.
H320 - Causes eye irritation.
H333 - May be harmful if inhaled.

GHS Precautionary Phrases: P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.

GHS Response Phrases: P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P337+313 - If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases: P501 - Dispose of contents/container to permitted waste facility.

Inhalation: May be harmful if inhaled, may cause irritation of upper respiratory tract.
Skin Contact: May be harmful if absorbed through the skin. May cause skin irritation.
Eye Contact: Contact with product causes slight to severe eye irritation.
Ingestion: May be harmful if swallowed.

SAFETY DATA SHEET QUENCH

3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)	Concentration	RTECS #
10026-24-1	Cobalt sulfate heptahydrate	<10.0 %	GG3200000
7758-94-3	Ferrous chloride	< 5.0 %	NO5400000
10101-97-0	Nickel(II) sulfate hexahydrate	< 5.0 %	QR9600000
17863-38-6	ethanol, 2-amino-2-hydroxy-1,2,3-propanetricarboxylate	<20.0 %	NA

4. First Aid Measures

Emergency and First Aid Procedures:	Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. Always bring with victim a copy of label and SDS of product to health professional.
In Case of Inhalation:	Move patient to fresh air. Supplemental oxygen may be needed. Assure mucous does not obstruct airway. Seek medical attention if victim's breathing is difficult.
In Case of Skin Contact:	Wash affected area with abundant soap and water. Seek medical attention if irritation occurs.
In Case of Eye Contact:	Holding eyelids apart, immediately flush eyes with copious amounts of clean water for at least 15 minutes. Seek medical attention should severe irritation occur.
In Case of Ingestion:	Immediately contact a physician or poison control center for treatment advice. Victim should drink milk, egg whites or large quantities of water. DO NOT INDUCE VOMITING. Never give anything by mouth to someone who is unconscious, having convulsions, or unable to swallow.
Note to Physician:	Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:	N.A.
Explosive Limits:	LEL: N.A. UEL: N.A.
Autoignition Pt:	N.A.
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media:	None known.
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Flammable Properties and Hazards:	Toxic fumes under fire conditions, such as NO, NO ₂ , CO, CO ₂ , etc.
Hazardous Combustion Products:	No data available.

SAFETY DATA SHEET

QUENCH

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:

In the event of an incidental release, minimum Personal Protective Equipment must be worn: rubber gloves and boots or of any other impervious material, goggles or full face-shield, and coveralls or long sleeved shirt and pants. In case of a large spill, protect people by clearing and isolating the affected area. Such releases should be responded to by trained personnel using pre-planned procedures.

Environmental Precautions:

Keep product from entering drains or other waterways in large quantities.

Steps To Be Taken In Case Material Is Released Or Spilled:

It is necessary to contain the spill into the smallest area possible by sweeping, scooping, diking, etc. and recover the product into an appropriate container, labeling it accordingly for use as intended following original label directions.

7. Handling and Storage

Precautions To Be Taken in Handling:

Use with adequate ventilation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, or clothing. Avoid ingestion and inhalation. Use only in a well-ventilated area. Empty containers may contain residual liquid or vapors and therefore should be handled the same as full containers.

Precautions To Be Taken in Storing:

Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. Keep containers tightly closed when not in use. Store in a cool, dry place, away from direct sunlight, sources of intense heat or where freezing is possible. If frozen, thaw and use as normally intended. Store away from food, feed, clothing materials and living quarters. Whenever possible, place chemicals on secondary containers or diked area.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
10026-24-1	Cobalt sulfate heptahydrate	No data.	TLV: 100 mg/m ³ as Co	No data.
7758-94-3	Ferrous chloride	No data.	TLV: 1 mg/m ³ as Fe	No data.
10101-97-0	Nickel(II) sulfate hexahydrate	No data.	TLV: 5 mg/m ³ as Ni	No data.
17863-38-6	ethanol, 2-amino-2-hydroxy-1,2,3-propanetricarboxylate	No data.	No data.	No data.

Recommended Exposure Limits:

No occupational exposure limits have been established for this mixture.

Respiratory Equipment (Specify Type):

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Eye Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Other Protective Clothing:

Wear long sleeve shirt, long pants, and protective shoes with socks.

Engineering Controls (Ventilation etc.):

General ventilation is usually adequate. Local exhaust may be used depending on working conditions. An eye bath, safety shower and washing facilities should be readily available.

SAFETY DATA SHEET

QUENCH

Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove all dirty or contaminated clothing and wash it before reusing, as well as any other PPE.
Environmental Exposure Controls:	Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash water.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Clear, brown color. Very slight characteristic odor.
pH:	4.6 - 6.6
Freezing Point:	N.E.
Boiling Point:	> 240.00 F (115.6 C)
Flash Pt:	N.A.
Evaporation Rate:	N.E.
Flammability (solid, gas):	Product is non-flammable.
Explosive Limits:	LEL: N.A. UEL: N.A.
Vapor Pressure (vs. Air or mm Hg):	N.E.
Vapor Density (vs. Air = 1):	N.E.
Specific Gravity (Water = 1):	1.19 - 1.23
Density:	~ 10.1 LB/GA
Solubility in Water:	No data.
Saturated Vapor Concentration:	N.E.
Octanol/Water Partition Coefficient:	N.E.
Autoignition Pt:	N.A.
Decomposition Temperature:	N.E.
Viscosity:	N.E.

10. Stability and Reactivity

Reactivity:	N.A.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Avoid extreme heat, humid areas and contact with incompatible materials.
Incompatibility - Materials To Avoid:	Strong oxidizing agents.
Hazardous Decomposition or Byproducts:	Toxic fumes under fire conditions, like NO, NO ₂ , CO, CO ₂ , etc.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	None known.

11. Toxicological Information

Toxicological Information:	<p>Mutagenicity: This product has not been investigated for mutagenic effects. Embryotoxicity: This product has not been investigated for embryotoxic effects. Teratogenicity: This product has not been investigated for teratogenic effects. Reproductive Toxicity: This product has not been investigated for toxic reproductive effects. CAS# 10026-24-1: Acute toxicity, LD50, Oral, Rat, 582.0 MG/KG. Result: Behavioral: Somnolence (general depressed activity). Behavioral: Ataxia. Gastrointestinal:Hypermotility, diarrhea. ; Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,688, 1992 CAS# 7758-94-3: Acute toxicity, LD50, Intraperitoneal, Mouse, 59.00 MG/KG. Result: Behavioral: Changes in psychophysiological tests. ; Naunyn-Schmiedeberg's Archiv fuer Experimentelle Pathologie und Pharmakologie., Vol/p/yr: 244,17, 1962</p>
Irritation or Corrosion:	No data available.
Symptoms related to Toxicological Characteristics:	No data available.
Sensitization:	The sensitizing properties of this product have not been thoroughly investigated.
Chronic Toxicological Effects:	No data available.
Carcinogenicity/Other Information:	The carcinogenic properties of this product have not been thoroughly investigated.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological Information:	No environmental impact studies have been performed with this product. The available data on this plant nutrient material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at preventing environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly, see above under Section 6 "Accidental Release Measures."
Persistence and Degradability:	The nature of this material does not indicate any undue hazard to the environment under anticipated use and storage.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

13. Disposal Considerations

Waste Disposal Method:	<p>Waste disposal must be done following all Federal, State and Local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority.</p> <p>Empty containers may have residues, thus handle them with caution. Dispose of properly according to regulations on empty containers in your locality or make available to a container reconditioning facility for recycling.</p>
-------------------------------	---

14. Transport Information

SAFETY DATA SHEET

QUENCH

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated. Trade Name: QUENCH

DOT Hazard Class:

UN/NA Number:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated. Trade Name: QUENCH

UN Number:

Packing Group:

Hazard Class:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated. Trade Name: QUENCH

UN Number:

Packing Group:

Hazard Class:

Additional Transport Information:

Placards / Markings: N.A.

Emergency Response Guide Number: N.A.

Reportable Quantity: N.A.

15. Regulatory Information

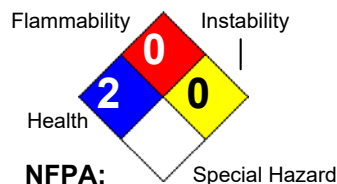
Regulatory Information:

TSCA Inventory: In compliance with inventory requirements for commercial purposes.

16. Other Information

Revision Date:

07/13/2020

Hazard Rating System:**Additional Information About This Product:** No data available.**Company Policy or Disclaimer:**

Stoller believes the information contained in this Safety Data Sheet is accurate based on the information provided by reputable suppliers of our raw materials. However, Stoller does not guarantee their accuracy or completeness. The information contained herein is furnished without warranty of any kind, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for any particular purpose. Users should consider these data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Stoller assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of goods and data.