

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 04.

Issue date 07/31/2019

Reviewed on 06/28/2022

1 Identification

- **Product Identifier**
- **Trade Name:** LQA Elite
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** No further relevant information available.
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Specialty Sales LLC
4672 E Drummond Ave
Fresno, CA 93725
(888) 800-5898
- **Emergency telephone number:**
Chemtrec (US): (800) 424-9300
Chemtrec (Outside US): (703) 527-3887 (Collect calls accepted)
CCN 203596

2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Acute Tox. 4 H302 Harmful if swallowed.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Warning
- **Hazard-determining components of labeling:**
Zinc sulfate monohydrate; Copper sulfate pentahydrate
- **Hazard statements:**
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements:**
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P330 Rinse mouth.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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• **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

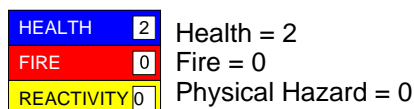
0 % of the mixture consists of component(s) of unknown toxicity.

• **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

• **NFPA ratings (scale 0 - 4)**



• **HMIS-ratings (scale 0 - 4)**



• **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

• **Chemical characterization:** Mixtures

• **Description:** Mixture of substances listed below with non-hazardous additions.

• **Dangerous Components:**

CAS: 7446-19-7 RTECS: ZH 5300000	Zinc sulfate monohydrate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	1-20%
CAS: 7758-99-8 RTECS: GL 8800000	Copper sulfate pentahydrate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	1-20%
	Proprietary ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	1-12%
	Proprietary ⚠ Skin Corr. 1A, H314	1-12%

• **Additional information:**

Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

• **Description of first aid measures**

• **General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

• **After inhalation:** Supply fresh air; consult doctor in case of complaints.

• **After skin contact:** If skin irritation occurs, consult a doctor.

• **After eye contact:**

If easy to do so, remove contact lenses if worn.

Rinse opened eye for at least 15 minutes under running water.

• **After swallowing:**

Seek immediate medical advice.

Do not induce vomiting without medical advice.

Rinse mouth with water.

If swallowed and symptoms occur, consult a doctor.

• **Information for doctor**

• **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

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- *Indication of any immediate medical attention and special treatment needed:*
No further relevant information available.

5 Fire-Fighting Measures

- *Extinguishing media*
- *Suitable extinguishing agents:* Use fire fighting measures that suit the environment.
- *For safety reasons unsuitable extinguishing agents:* No further relevant information.
- *Special hazards arising from the substance or mixture:* No further relevant information available.
- *Advice for firefighters*
- *Special protective equipment for firefighters:*
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- *Personal precautions, protective equipment and emergency procedures:* Not required.
- *Environmental precautions:*
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/surface or ground water.
- *Methods and material for containment and cleaning up:*
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- *Reference to other sections:*
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- *Protective Action Criteria for Chemicals*

· <i>PAC-1:</i>	
Proprietary	0.20 mg/m ³
· <i>PAC-2:</i>	
Proprietary	8.7 mg/m ³
· <i>PAC-3:</i>	
Proprietary	160 mg/m ³

7 Handling and Storage

- *Handling*
- *Precautions for safe handling:*
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- *Information about protection against explosions and fires:* No special measures required.
- *Conditions for safe storage, including any incompatibilities*
- *Storage*
- *Requirements to be met by storerooms and receptacles:* No special requirements.
- *Information about storage in one common storage facility:* Not required.
- *Further information about storage conditions:* None.
- *Specific end use(s):* No further relevant information available.

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8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

Proprietary

PEL	Long-term value: 1 mg/m ³
REL	Long-term value: 1 mg/m ³
TLV	Long-term value: 0.2* mg/m ³ *as thoracic fraction

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves recommended in manufacturing.
- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:**



Tightly sealed goggles

- **Limitation and supervision of exposure into the environment:**
Keep away from drains, surface and ground waters.
Avoid release into the environment.

* 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Color:	Blue to dark blue or green
Odor:	Acrid
Odor threshold:	Not determined.
- **pH-value @ 20 °C (68 °F):** 0.7
- **Change in condition**

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.

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- *Flash point:* $\geq 345\text{ }^{\circ}\text{C}$ ($\geq 653\text{ }^{\circ}\text{F}$)
- *Flammability (solid, gaseous):* Not applicable.
- *Ignition temperature:* $\geq 1,010\text{ }^{\circ}\text{C}$ ($\geq 1,850\text{ }^{\circ}\text{F}$)
- *Decomposition temperature:* Not determined.
- *Auto igniting:* Product is not self-igniting.
- *Danger of explosion:* Product does not present an explosion hazard.
- *Explosion limits:*
 - Lower: Not determined.
 - Upper: Not determined.
- *Vapor pressure:* Not determined.
- *Density @ 20 °C (68 °F):* 1.283 g/cm³ (10.7002 lbs/gal)
- *Relative density:* Not determined.
- *Vapor density:* Not determined.
- *Evaporation rate:* Not determined.
- *Solubility in / Miscibility with:*
 - Water: Soluble.
- *Partition coefficient (n-octanol/water):* Not determined.
- *Viscosity:*
 - Dynamic: Not determined.
 - Kinematic: Not determined.
- *Solvent content:*
 - VOC content: 0.00 %
0.0 g/l / 0.00 lb/gal
- *Other information:* No further relevant information available.

10 Stability and Reactivity

- *Reactivity:* No further relevant information available.
- *Chemical stability:*
- *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.
- *Possibility of hazardous reactions:* No dangerous reactions known.
- *Conditions to avoid:* No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- *Hazardous decomposition products:* No dangerous decomposition products known.

11 Toxicological Information

- *Information on toxicological effects:*
- *Acute toxicity:*

· *LD/LC50 values that are relevant for classification:*

Proprietary		
Oral	LD50	5,040 mg/kg (Mouse)
		5,400 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

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	LC50/48 hrs	440 mg/l (Daphnia)
Proprietary		
Oral	LD50 Oral	2,140 ml/kg (Rat)
Inhalative	LC50/96 hours	375 mg/l (Rat)
Sulfuric acid is harmful by all routes of entry.		

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** May be irritating.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

Proprietary	7664-93-9
• NTP (National Toxicology Program): None of the ingredients are listed.	
• OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.	

12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:**
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Proprietary	
EC50	1,534 mg/l (Daphnia)
Proprietary	
EC50	22 mg/l (Daphnia)

- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Poisonous for fish and plankton in water bodies.

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Very toxic for aquatic organisms

Rinse off bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

• **Results of PBT and vPvB assessment:**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

• **Waste treatment methods**

• **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

• **Uncleaned packaging**

• **Recommendation:** Disposal must be made according to official regulations.

* 14 Transport Information

• **UN-Number:**

• **DOT**

3082

• **ADR/ADN, IMDG, IATA**

UN3082

• **UN proper shipping name:**

• **DOT**

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulfate monohydrate, Copper sulfate pentahydrate), 9, PGIII, Marine Pollutant, LQA Elite

• **ADR/ADN**

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulfate monohydrate, Copper sulfate pentahydrate)

• **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulfate monohydrate, Copper sulfate pentahydrate), MARINE POLLUTANT

• **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulfate monohydrate, Copper sulfate pentahydrate)

• **Transport hazard class(es):**

• **DOT**

• **Class:**

9

• **ADR/ADN**



• **Class:**

9 (M6) Miscellaneous dangerous substances and articles

• **Label:**

9

• **IMDG, IATA**



• **Class:**

9 Miscellaneous dangerous substances and articles

• **Label:**

9



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- **Packing group:** III
- DOT III

- ADR/ADN, IMDG, IATA III
- **Environmental hazards:** Product contains environmentally hazardous substances: Zinc sulfate monohydrate, Copper sulfate pentahydrate
- **Special marking (ADR/ADN):** Symbol (fish and tree)
- **Special marking (IATA):** Symbol (fish and tree)
- **Special precautions for user:** Warning: Miscellaneous dangerous substances and articles
- **Danger code (Kemler):** 90
- **EMS Number:** F-A,S-F
- **Stowage Category:** A
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **Transport/Additional information:**

- ADR/ADN
- **Excepted quantities (EQ):** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- IMDG
- **Limited quantities (LQ):** 5L
- **Excepted quantities (EQ):** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
- **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC SULFATE MONOHYDRATE, COPPER SULFATE PENTAHYDRATE), 9, PGIII, Marine Pollutant, LQA Elite

15 Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA (Superfund Amendments and Reauthorization):

· Section 355 (extremely hazardous substances):	
Proprietary	
· Section 313 (Specific toxic chemical listings):	
7446-19-7	Zinc sulfate monohydrate
7758-99-8	Copper sulfate pentahydrate
	Proprietary
· TSCA (Toxic Substances Control Act):	
Proprietary	ACTIVE
Proprietary	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients are listed.	

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• *California Proposition 65:*

• <i>Chemicals known to cause cancer:</i>	
None of the ingredients are listed.	
• <i>Chemicals known to cause reproductive toxicity for females:</i>	
None of the ingredients are listed.	
• <i>Chemicals known to cause reproductive toxicity for males:</i>	
None of the ingredients are listed.	
• <i>Chemicals known to cause developmental toxicity:</i>	
None of the ingredients are listed.	
• <i>New Jersey Right-to-Know List:</i>	
Proprietary	
• <i>New Jersey Special Hazardous Substance List:</i>	
Proprietary	CA, CO, R2
• <i>Pennsylvania Right-to-Know List:</i>	
Proprietary	
• <i>Pennsylvania Special Hazardous Substance List:</i>	
Proprietary	E

• *Carcinogenic categories:*

• <i>EPA (Environmental Protection Agency):</i>		
7446-19-7	Zinc sulfate monohydrate	D, I, II
7758-99-8	Copper sulfate pentahydrate	D, I, II
• <i>TLV (Threshold Limit Value established by ACGIH):</i>		
Proprietary		A2
• <i>NIOSH-Ca (National Institute for Occupational Safety and Health):</i>		
None of the ingredients are listed.		

• *GHS label elements*

The product is classified and labeled according to the Globally Harmonized System (GHS).

• *Hazard pictograms:*



• *Signal word:* Warning

• *Hazard-determining components of labeling:*

Zinc sulfate monohydrate, Copper sulfate pentahydrate

• *Hazard statements:*

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

• *Precautionary statements:*

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.



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P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

None of the ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of last revision/ revision number:** 06/28/2022 / 4

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· *** Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106