Safety
Data
Sheet

U·E·I Systems
A UEI GROUP COMPANY

9090 Nieman • Overland Park, KS 66214 • (913) 541-0503 • Toll Free: 800-221-9059 • sales@ueisystems.com • ueisystems.com

Section 1 Chemical Product and Company Identification

Product Identifier GPC® AquaMulsion® Positive Developer

Product Number IR-CHE7365, IR-CHE7366, IR-CHE7367

General Use Developing images on pre-sensitized metal

Company Address UEI Systems®, a UEI Group Company
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Emergency Contact Number CHEMTEL – Available 24 hours/day, 7 days/week
Domestic North America: +1 800 255 3924
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Section 2 Hazards Identification

GHS Classification

Hazard Class	Hazard Category	Route of Exposure
Corrosive to metals	1	–
Skin Corrosion	1B	–
Serious Eye Damage	1	–
Specific Target Organ Toxicity (single exposure)	3	Respiratory System

GHS Labeling

Contains Sodium Metasilicate (6834-92-0)

Danger

Hazard Statements
May be corrosive to metals
Causes severe skin burns and eye damage
May cause respiratory irritation

Precautionary Statements
Keep only in original container
Do not breathe dust or mist
Wash skin thoroughly after handling
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection

Response
If Swallowed: Rinse mouth. Do **not** induce vomiting.
If On Skin (or hair): Remove/ Take off immediately all contaminated clothing.
Rinse skin with water/ shower.
If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If In Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a **Poison Center** or doctor/ physician.
Specific treatment: See supplemental first aid instructions on this label.
Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

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Section 2 Hazards Identification, continued

Storage Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Store in corrosive resistant stainless steel container with a resistant inner liner.

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

Section 3 Hazardous Ingredients / Identity Information

Hazardous Components	CAS No.	%
Sodium Metasilicate	6834-92-0	<100

Section 4 First Aid Measures

In all cases, call a physician immediately.

Inhalation Remove to fresh air. If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.

Ingestion Do **not** induce vomiting. Rinse mouth with water.

Eye Contact Immediately flush eyes with large amounts of water for at least 15 minutes.
Continue rinsing eyes during transport to hospital.

Skin Contact Immediately flush skin with large amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Section 5 Firefighting Measures

Flammable/Combustible Properties Sodium oxides, silicon oxides

Fire/Explosion No data available

Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

Firefighting Equipment/Instructions Wear self-contained breathing apparatus for firefighting, if necessary

Section 6 Accidental Release Measures

Personal Precautions Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, rubber boots and NIOSH-approved dust respirator where dust occurs

Environmental Precautions Prevent runoff to sewers or waterways

Methods for Cleaning Up Use absorbent material and place in non-leaking containers and tightly seal

Section 7 Handling and Storage

Handling Precautions Do not get in eyes, on skin or on clothing. Do not breathe dust. Keep container closed. Promptly clean up spills. Wash hands thoroughly after handling.

Storage Requirements Keep containers closed. Store in clean, tightly closed steel, fiber, or plastic containers. Separate from acids, reactive metals, and ammonium salts. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers. This product can absorb water from the air. In case of high humidity or storage for extended periods of time, use plastic bags to enclose product containers to avoid caking. Packaged inventory should be used on a first-in, first-out (FIFO) basis.

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Section 8 Component Exposure Limits

Hazardous Components	CAS No.	%	OSHA (PEL/TWA)	ACGIH TLV
Sodium Metasilicate	6834-92-0	<100%	NA	NA

Control Parameters Contains no substances with occupational exposure limit values

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator.

Protective Hand Protection Wear protective gloves

Eye Protection Wear approved safety glasses when handling a chemical substance

Skin Protection Wear protective clothing

Section 9 Physical and Chemical Properties

Appearance/Odor	White powder/no data	**Odor Threshold**	No data
pH	12.5 at 10 g/l at 68°F (20°C)	**Boiling Point**	No data
Melting Point Range	1,994° F (1,090° C)	**Solubility (H_2O)**	350 g/l at 68°F (20°C)
Specific Gravity	No data	**Density**	68 lbs/ft^3 at 68°F (20°C)
Octanol/H_2O Coefficient	No data	**Evaporation Rate**	No data
Molecular Weight	122.06	**Decomposition Temperature**	No data
Auto Ignition	No data	**Lower Flammability Limit**	No data
Flash Point	No data	**Upper Flammability Limit**	No data
Vapor Density	No data	**Vapor Pressure**	10.0103 hPa (0.0077 mm Hg) at 2,147° F (1,175° C)
VOC	No data	**Flammability Class**	No data
Viscosity	No data		

Section 10 Chemical Stability and Reactivity

Stability Stable

Conditions to Avoid No data available

Incompatibility Strong acids, Lead, Tin/tin oxides, Zinc, Aluminum

Hazardous Decomposition/ By-Products Solutions of sodium metasilicate, when heated or acidified, are hydrolyzed to free sodium ions and silicic acid.

Hazardous Polymerization Will not occur

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Section 11 Toxicological Information

Likely Routes of Exposure Occupational exposure may occur through inhalation and dermal contact with this compound.

Acute Toxicity

Acute Oral LD50 LD50 Oral (rat, male and female) 1,152 – 1,349 mg/kg

Acute Dermal LD50 No data available

Acute Inhalation LC50 No data available

Skin corrosion/irritation Skin (rabbit) Result: Corrosive 4 h

Carcinogenicity There are no known reports of carcinogenicity of ingredients.

Target Organ Effects Inhalation: May cause respiratory irritation in the respiratory system

Reproductive Toxicity No data available

Teratogenicity In vitro genetic toxicity studies were negative.

Section 12 Ecological Information

Ecotoxicity

Toxicity to Fish

Component	Species	Exposure Time	LC50/EC50/IC50
Sodium Metasilicate (6834-92-0)	*Danio rerio* (zebra fish) bacteria	96 hrs	LC50 210 mg/l

Persistence/Degradability No data available

Bioaccumulative Potential No data available

Mobility in Soil No data available

Section 13 Disposal Considerations

Disposal Instructions Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

Section 14 Transportation Information

DOT (US)

UN number 3253
Class 8
Packing group III
Proper shipping name
Disodium trioxosilicate
Reportable Quantity (RQ) NA
Marine pollutant No
Poison Inhalation Hazard No

IMDG

UN number 3253
Class 8
Packing group III
EMS-No F-A, S-B
Proper shipping name
Disodium trioxosilicate
Marine pollutant No

IATA

UN number 3253
Class 8
Packing group III
Proper shipping name
Disodium trioxosilicate

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Section 15 Regulatory Information

Component Analysis – State

SARA 302 Components

SARA 302 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards Acute Health Hazard

TSCA[4] - Toxic Substances Control Act Listed

Right To Know Components	CAS-No	Revision Date

Pennsylvania No components are subject to the Pennsylvania Right to Know Act.

New Jersey No components are subject to the New Jersey Right to Know Act.

Massachusetts No components are subject to the Massachusetts Right to Know Act.

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 Other Information

UEI Systems® provides the information contained herein in good faith. It is believed to be correct. However it is not all-inclusive and should be used only as a guide. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. UEI Systems shall not be held liable for any damage resulting from handling or from contact with this product. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources.

Abbreviations

PEL Permissible Exposure Limit
TLV Threshold Limit Value

End Notes

1. SARA - Signed into law in 1986, the Superfund Amendments and Reauthorization Act (SARA) is an extension of CERCLA, and is intended to encourage and support local and state emergency planning efforts. SARA provides citizens and local governments with information about potential chemical hazards, and calls for facilities that store hazardous materials to provide officials and citizens with data on the type and amount on hand at specific locations. This field states whether a material is listed or not listed in section 372.65 of SARA. EHS - This states if a material is listed or not listed in Appendix B to part 355, the SARA Extremely Hazardous Substances (EHS) section. RQ is the reportable quantity. TPQ is the Threshold Planning Quantity.

2. RCRA - The Resource Conservation and Recovery Act enacted in 1976 and subsequently amended, controls solid-waste disposal and encourages recycling. This states whether a material is listed or not listed under this regulation. If listed the Hazardous Waste Number and waste characterization assigned by RCRA is also provided.

3. CERCLA - Enacted in 1980 and amended thereafter, the Comprehensive Environmental Response, Compensation, and Liability Act provides for identification and cleanup of hazardous materials released on land, into the air, waterways, and groundwater. It covers areas affected by newly released materials and older leaking or abandoned dump sites. This states whether a material is listed or not listed in CERCLA Table 302.4. If listed the section(s) that it is listed under and the Reportable Quantity (RQ) are also provided.

4. TSCA - The Toxic Substances Control Act controls the exposure to and use of raw industrial chemicals not subject to other laws. This states whether the chemical is listed or not listed under this regulation.

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Supersedes 21 April 2020

Evidence http://toxnet.nlm.nih.gov/