

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY UNDERTAKING

1.1 Product identifier

Product name Aqua-Ca with Humin +PLUS

1.2 Relevant use of the product

Applications Fertilizers

1.3 Manufacturer, Importer or Responsible Party

Name SOLUCAL-USA, Ltd.

Address 81 Charlotte Furnace Road

PO Box 278

West Wareham, MA 02576 USA

Telephone 774-678-0288

Contact email orders@solu-cal.com

1.4 Emergency phone number

Telephone USA National Capital Poison Center: 1 800 222 1222

2. HAZARDS IDENTIFICATION

2.1. The hazard classification of the chemical according to HCS 2012 (US-GHS)

Skin irrit. 3	H316
Eye irrit. 2B	H320
STOT SE 3	H335
Carc. 1A	H350
STOT RE 1	H372

2.2. Danger symbols







2.3. Signal word Warning

2.4. Hazard statements H316 Causes skin irritation

H320 Causes eye irritation

H335 May cause respiratory irritation

H350 May cause cancer.

H372 May cause damage to organs (Lungs) through prolonged or repeated

exposure if inhaled.

2.5. Precautionary

statements

Prevention P201 Obtain special instructions before use.



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P202 Do not handle until all safety precautions have been read and

understood.

P260 Do not breathe dust.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

Response P304+P340 IF INHALED: Remove person to fresh air and keep comfortable

for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P314 Get medical advice/attention if you feel unwell.

Storage P405 Store locked up.

Disposal P501 Dispose of contents/container according to local regulations.

2.6. Description of any

hazards not otherwise

classified

Not applicable.

2.7. % ingredient(s) with

unknown acute

toxicity

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name		CAS-Nr.	Concentration %
Calcitic lime	Calcium carbonate	1317-65-3	C = 99%
	Quartz	14808-60-7	C = <1%
	Humic acid	n/a	C = <1%
Wetting Agent ACA2045	D-Glucopyranose,	68515-73-1	C = <1%
(Synergy)	oligomeric, decyl octyl		
	glycosides		



4. FIRST AID MEASURES

4.1 First Aid measures after Inhalation

Following inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing

is difficult, give oxygen. Use oxygen as required, provided by a qualified

operator. Get medical attention if irritation develops and persists.

4.2 First Aid measures after Skin exposure

Following skin contact Wash off immediately with plenty of water for at least 15 minutes. Take off

contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Get medical attention if irritation develops and

persists.

4.3 First Aid measures after Eye exposure

Following eye contact Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes. Get medical attention if irritation develops and persists.

4.4 First Aid measures after Ingestion

Following ingestion Induce vomiting, but only if victim is fully conscious. Never give anything by

mouth to an unconscious person. Drink 1 or 2 glasses of water. Do not give

milk or alcoholic beverages. Call a physician.

4.5 Most important symptoms and effects, both acute and delayed

INHALATION None known.

SKIN Dust can cause temporary mechanical irritation of eyes. If burning, redness,

itching, pain or other symptoms persist or develop, consult a physician.

EYES None known INGESTION None known.

4.6 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media *Suitable:*

Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff. Prevent firefighter water from entering the

environment.

Small fires: Water spray, foam, dry chemical or CO2

Large fires: Water spray, fog or foam.

Unsuitable: Not applicable.

5.2 Special hazards arising from chemical or mixture during the fire

Container may rupture on heating. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Explosive reactions with oxidizing agents such as potassium chlorate and/or peroxides. In case of fire hazardous decomposition products may be produced such as:

- Ammonia

- Carbon monoxide

- Carbon dioxide (CO2)



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5.3 Special Protective Precautions or equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment

Wear personal protective equipment.

6.2 Emergency procedures

Unprotected persons must be kept away.

Evacuate personnel to safe areas. Provide adequate ventilation.

Avoid dust formation. Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

6.3 Methods and materials

Do not flush into surface water or sanitary sewer system.

used for containment

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

6.4 Clean-up procedures

Use mechanical handling equipment. Clean contaminated surface thoroughly.

Pick up and arrange disposal without creating dust.

Use a suitable vacuum cleaner.

7. HANDLING AND STORAGE

7.1 Precautions for safe

Handle with care.

handling

Wear personal protective equipment. Use only in well-ventilated areas.

Avoid dust formation.

Provide exhaust ventilation if dust is formed.

Dust must be extracted directly at the point of origin.

Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe

storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

Containers should be protected against falling down.

Containers which are opened must be carefully resealed and kept upright to

prevent leakage.

Store away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ACGIH-Threshold Limit Value (TLV)

Exposure limit values of the components: Calcium carbonate: ACGIH TLV® = 10 mg/m³

Respirable quartz dust: ACGIH TLV® = 0,05 mg/m³



8.2 OSHA-Permissible Exposure Limit (PEL)

Exposure limit values of the components:

Component / CAS	TLV, 8H (OSHA, PEL)
	mg/m³
Quartz (SiO2)	Total dust: 30 mg/m ³ / %SiO2+2 (OSHA Z-3)
CAS N°: 14808-60-7	Respirable: 10 mg/m³ / %SiO2+2 (OSHA Z-3)
	Respirable: 250 mppcf / %SiO2+5 (OSHA Z-3)
Limestone	Total dust: 15 mg/m³ (OSHA Z-1)
CAS N°: 1317-65-3	Respirable: 5 mg/m³ (OSHA Z-1)
	Total dust: 15 mg/m³ (OSHA P0)
	Respirable: 5 mg/m³ (OSHA P0)
Particulates Not Otherwise	Total dust: 15 mg/m³ (OSHA Z-1)
Regulated (PNOR) :	Respirable: 5 mg/m³ (OSHA Z-1)

8.3 Any other exposure limit used or recommended by chemical manufacturer

Non applicable

8.4 Engineering Controls

Provide exhaust ventilation if dust is formed. Dust must be extracted directly at the point of origin. Apply technical measures to comply with the occupational exposure limits.

8.5 Personal Protective Equipment

Hand protection: Gloves

Gloves must be inspected prior to use. Replace when worn.

Eye protection: Do not wear contact lenses.

Wear as appropriate: Safety glasses with side-shields

Body protection: Long sleeved clothing

<u>Respiratory protection:</u> A NIOSH approved air purifying respirator with a type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator use.

<u>Hygiene measures</u>: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information of basic physical and chemical properties

Appearance (physical Multicolor solid

state, colour, etc.)

Odour Odourless



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Odour threshold Not applicable

pH No data available

Melting point/freezing

point;

No data available

Boiling point Not applicable

Boiling Range Not applicable

Flash point No data available

Evaporation rate Not applicable

Flammability Not flammable

Upper/lower flammability

or explosive limits

No data available

Oxidising properties No data available

Vapour pressure Not applicable

Vapour density No data available

Density 67 lbs./ft³

Solubility in water Partially soluble

Other Solvents No data available

Partition coefficient (n-

octanol/water)

No data available

Auto ignition temperature No data available

Decomposition temperature

No data available

Viscosity Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity Contains Limestone which reacts with acids. It forms carbon dioxide (CO2). This

displaces the oxygen in the air in closed spaces. (danger of suffocation)

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous

reactions

Hazardous polymerization does not occur.



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10.4 Conditions to avoid Contact with incompatible materials

10.5 Incompatible materials Strong oxidizing agents, fluorine, boron trifluoride, chlorine trifluoride.

10.6 Hazardous decomposition

products

Limestone ignites on contact with fluorine and is incompatible with acids, ammonium

salts and magnesium.

11. TOXICOLOGICAL INFORMATION

11.1 Measures of Toxicity

Acute toxicity: Limestone:

Acute toxicity: LD50 Oral (Rat): > 5,000 mg/kg

Silica:

Acute toxicity: LD50 (Rat): 5,000 mg/kg

(Mouse): >15000 mg/Kg

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitisation: Product:

no data available Quartz (SiO2)

11.2 Listed in IARC or considered

carcinogen by NTP or OSHA

CAS N°: 14808-60-7

Group 1 (IARC), Volume 68, 100C

11.3 Further information This product contains prismatic tremolite (e.g., cleavage fragments) as an

impurity. Sufficient exposure to respirable prismatic tremolite dust may

cause serious lung problems.

12. ECOLOGICAL INFORMATION

12.1 Toxicity Ingredients:

Silica (quartz):

Toxicity to fish: LC50: > 10,000 mg/l Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates:

EC50: >1000mg/l (Exposure time:48 h) Species: *Daphnia magna* (Water flea)



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EC50: 200 mg/l (Exposure time:72h)

Species: Desmodesmus subspicatus (green algae)

Limestone:

Toxicity to fish

LC₅₀: >10,000 mg/L (Exposure time: 96 Hours)

Species: Algae

Toxicity to daphnia and other aquatic invertebrates:

EC50: >1000mg/l (Exposure time:48 h) Species: *Daphnia magna* (Water flea)

12.2 Persistence and

degradability

No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data available

12.5 Other adverse effects May release ammonium ions that are toxic to fish. Un-ionized ammonia

concentrations above 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream. Fish 96 hour LC50, OECD Guidelines 203 (rainbow trout):

>86mg/L.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods to employ

Recover or recycle if possible. Properly characterize all waste materials. Consult federal, state/provincial and local regulations regarding the proper disposal of this material. Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Empty containers should be taken to an approved waste handling site for recycling or disposal.

13.2 Description of appropriate disposal containers to use

No data available

13.3 Description of the physical and chemical properties that may affect disposal activities

No data available

13.4 Language discouraging sewage disposal.

No data available



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13.5 Any special precautions for landfills or incineration activities

UN Number

No data available

14.	TRANSPURT	INFURIVIATION	

UN proper shipping name	
Transport hazard classes	
Packing group	
Environmental hazards	
Guidance On transport	
Special precautions for user	

15. REGULATORY INFORMATION

National and/or regional regulatory information of the chemical or mixtures

Inventories:

US. Toxic Substances Control Act: No data available

OSHA Hazards: Carcinogen

<u>Clean Air Act:</u> This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

16. OTHER INFORMATION

Indications on the revision

First edition: 08/10/2015

Addition of all fields as required by regulation (US) HCS 1910.1200 [HCS 2012]. Update of the classification information and update of related sections accordingly.

Abbreviations and acronyms used



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ACGIH: American conference of governmental and industrial hygienist

CAS N°.: Chemical Abstract Service Number

CFR: Code of Federal Regulations

EC50: Half maximal effective concentration

IARC: International agency for the research on cancer

IC50: Half maximal inhibitory concentration HCS: Hazard communication standard LC50: Half maximal lethal concentration

LD50: Half maximal lethal dose

NIOSH: National institute of occupational safety and health OSHA: Occupational safety and health administration STOT SE: Specific target organ toxicity Single exposure

UN N°.: United Nations Number

Methods of evaluation for the classification of mixtures

The classification of the mixture was set based on the regulation (US) HCS 1910.1200 [HCS 2012].

Other information

This information is based on our present knowledge and is provided according to the relevant national regulations. This information is intended as a characterization of the product in order to provide guidance for the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product.