# SAFETY DATA SHEET

### 1. Identification

Product identifier SEEDLINGERS H20 HOLD

Other means of identification None.

Recommended use Not available.

Recommended restrictions

Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

#### Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name MESSINAS

Address 490 Route 57 West

Washington, NJ 07882

General Assistance

**Telephone** 908-320-7009

Website www.messinas.com
E-mail sds@messinas.com

Emergency phone number CHEMTREC 800-424-9300

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Carcinogenicity Category 1A
Reproductive toxicity Category 2
Specific target organ toxicity, repeated Category 1

exposure

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause cancer.

Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged

or repeated exposure.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective

clothing/eye protection/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. 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/doctor. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash it before reuse.

Storage Store locked up.

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

Hazard(s) not otherwise None known.

classified (HNOC)

## 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name                        | Common name and synonyms | CAS number  | %             |
|--------------------------------------|--------------------------|-------------|---------------|
| Dolomite                             |                          | 16389-88-1  | 31.2          |
| N-BUTYLPHOSPHOROTHIOIC<br>TRIAMIDE   |                          | 94317-64-3  | 16.3          |
| POTASH                               |                          | 7447-40-7   | 16.2          |
| Limestone                            |                          | 1317-65-3   | 15.2799999999 |
| BENTONITE                            |                          | 1302-78-9   | 10            |
| UREA                                 |                          | 57-13-6     | 5             |
| DAP                                  |                          | 7783-28-0   | 1.1           |
| Amorphous Silica (total Dust)        |                          | 112926-00-8 | < 0.3         |
| Crystalline Sio2 (quartz)            |                          | 14808-60-7  | < 0.1         |
| Other components below reportable le | evels                    |             | 3 - < 5       |

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Material can be slippery when wet.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted. General fire hazards

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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## Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| Components   | osure Limits (PEL) for Air Contaminants<br>Type | Value            | <sup>´</sup> Form    |
|--|---|------------------|----------------------|
| Crystalline Sio2 (quartz)<br>(CAS 14808-60-7)      | PEL   | 0.05 mg/m3       | Respirable dust.     |
| Limestone (CAS 1317-65-3)                          | PEL   | 5 mg/m3          | Respirable fraction. |
|  |   | 15 mg/m3         | Total dust.          |
| US. OSHA Table Z-3 Permissible Expo                | osure Limits (PEL) for Mineral Dusts (29        | 9 CFR 1910.1000) |                      |
| Components   | Туре  | Value            | Form                 |
| Amorphous Silica (total<br>Dust) (CAS 112926-00-8) | TWA   | 5 mg/m3          | Respirable fraction. |
|  |   | 15 mg/m3         | Total dust.          |
|  |   | 0.8 mg/m3        |                      |
| Crystalline Sio2 (quartz)<br>(CAS 14808-60-7)      | TWA   | 0.1 mg/m3        | Respirable.          |
|  |   | 2.4 mppcf        | Respirable.          |
| Dolomite (CAS 16389-88-1)                          | TWA   | 5 mg/m3          | Respirable fraction. |
|  |   | 15 mg/m3         | Total dust.          |
|  |   | 50 mppcf         | Total dust.          |
|  |   | 15 mppcf         | Respirable fraction. |
| Limestone (CAS 1317-65-3)                          | TWA   | 5 mg/m3          | Respirable fraction. |
|  |   | 15 mg/m3         | Total dust.          |
|  |   | 50 mppcf         | Total dust.          |
|  |   | 15 mppcf         | Respirable fraction. |
| US. ACGIH Threshold Limit Values (T                | LV)   |                  |                      |
| Components   | Туре  | Value            | Form                 |
| Crystalline Sio2 (quartz)<br>(CAS 14808-60-7)      | TWA   | 0.025 mg/m3      | Respirable fraction. |
| NIOSH. Immediately Dangerous to Life Components    | e or Health (IDLH) Values, as amended<br>Type   | Value            |                      |
| Amorphous Silica (total<br>Dust) (CAS 112926-00-8) | IDLH  | 3000 mg/m3       |                      |

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NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended Components

Type Crystalline Sio2 (quartz) **IDLH** 50 mg/m3

(CAS 14808-60-7)

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Components **Form** Value Type Amorphous Silica (total **TWA** 6 mg/m3 Dust) (CAS 112926-00-8) Crystalline Sio2 (quartz) **TWA** 0.05 mg/m3 Respirable dust. (CAS 14808-60-7) Limestone (CAS 1317-65-3) **TWA** 5 mg/m3 Respirable. 10 mg/m3 Total

US. OARS. Workplace Environmental Exposure Level (WEEL) Guide

**Form** Components Type Value UREA (CAS 57-13-6) **TWA** 10 mg/m3 Total particulate.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Value

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Solid. Physical state Solid. **Form** 

Not available. Color Not available. Odor Not available. **Odor threshold** Not available. Ha

270.86 °F (132.7 °C) estimated Melting point/freezing point Initial boiling point and boiling 2732 °F (1500 °C) estimated

range

Flash point Not available. Not available. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

0.002 hPa estimated Vapor pressure

Vapor density Not available. Not available. Relative density

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 15.19 lbs/gal estimated

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Specific gravity 1.82 estimated

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**Contact with incompatible materials.

Incompatible materials Acids. Fluorine.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye damage.

**Ingestion** Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

Amorphous Silica (total Dust) (CAS 112926-00-8)

Acute Oral

LD50 Rat > 22500 mg/kg

DAP (CAS 7783-28-0)

Acute

**Dermal** 

LD50 Rabbit > 7950 mg/kg

Oral

LD50 Rat 6500 mg/kg

UREA (CAS 57-13-6)

<u>Acute</u>

Oral

LD50 Rat 8471 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded Carcinogenicity

that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing

regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable

dust and respirable crystalline silica should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous Silica (total Dust) (CAS 112926-00-8) 3 Not classifiable as to carcinogenicity to humans.

Crystalline Sio2 (quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline Sio2 (quartz) (CAS 14808-60-7) Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

Crystalline Sio2 (quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated

exposure.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results** 

**BENTONITE (CAS 1302-78-9)** 

Aquatic Acute

Fish

LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss)

19000 mg/l, 96 hours

DAP (CAS 7783-28-0)

Aquatic

Acute

LC50 Mozambique tilapia (Tilapia Fish 0.12 mg/l, 96 hours

mossambica)

POTASH (CAS 7447-40-7)

Aquatic

Acute

Water flea (Daphnia magna) EC50 83 mg/l, 48 hours Crustacea

LC50 Western mosquitofish (Gambusia affinis) 435 mg/l, 96 hours Fish

UREA (CAS 57-13-6)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) 3910 mg/l, 48 hours Fish LC50 Giant gourami (Colisa fasciata) 5 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

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Partition coefficient n-octanol / water (log Kow)

**UREA** -2.11

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

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

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

**UN** number UN3077

**UN** proper shipping name

Transport hazard class(es)

Environmentally hazardous substance, solid, n.o.s. (UREA)

Class 9 Subsidiary hazard Ш Packing group **Environmental hazards** Yes **ERG Code** 9L

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN** number UN3077

UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (UREA), MARINE

POLLUTANT (DAP)

Transport hazard class(es)

Class 9 **Subsidiary hazard** Ш Packing group **Environmental hazards** 

Marine pollutant Yes

**EmS** F-A, S-F

Transport in bulk according to Annex II of MARPOL 73/78 and

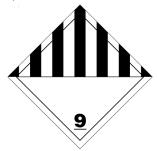
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not applicable.

the IBC Code

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#### IATA; IMDG



#### Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

#### **Toxic Substances Control Act (TSCA)**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

N-BUTYLPHOSPHOROTHIOIC TRIAMIDE

1.0 % One-Time Export Notification only.

(CAS 94317-64-3)

Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt

E)

N-BUTYLPHOSPHOROTHIOIC TRIAMIDE

721.6090

(CAS 94317-64-3)

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

## SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline Sio2 (quartz) (CAS 14808-60-7)

Cancer

lung effects

immune system effects

kidney effects

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard categories

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity
Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

#### SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

### **California Proposition 65**



WARNING: This product can expose you to Crystalline Sio2 (quartz), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

# California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline Sio2 (quartz) (CAS 14808-60-7) Listed: October 1, 1988

#### **International Inventories**

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Industrial Chemicals (AICIS)                   | No                     |
| Canada               | Domestic Substances List (DSL)   | No                     |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | No                     |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe               | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                | Existing Chemicals List (ECL)  | No                     |
| New Zealand          | New Zealand Inventory  | No                     |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances              | No                     |

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

# 16. Other information, including date of preparation or last revision

10/28/2024 Issue date

**Revision date** 

Version # 1

Disclaimer Messinas cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

This document has undergone significant changes and should be reviewed in its entirety.

**Revision information** 

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).