

SAFETY DATA SHEET

Emission date: 2022-11-23



Section 1. Identification

Product name : **Ultra 2N1 (4X)** **Code** : **AGR03 (6740-BULK)**

Recommended use : **Foot bath solution**

Restrictions on use : For professional use only.

Supplier/Manufacturer : **AgroChem**
26, Freedom Way
Saratoga Springs, NY 12866
United States of America
sales@agrochemusa.com / agrochemusa.com

Emergency phone (24 hour service) : **Carechem 24** : 1-215-207-0061
toll free : 1-866-928-0789

Section 2. Hazard identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Product classification : FLAMMABLE LIQUIDS - Category 4
CORROSIVE TO METALS - Category 1
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - Category 2
CARCINOGENICITY - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Hazard pictograms : 

Signal word : Danger

Hazard statements : Combustible liquid.
May be corrosive to metals.
Harmful if swallowed.
Toxic in contact with skin or if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.
Suspected of causing genetic defects.
May cause cancer.
May cause damage to organs. (central nervous system (CNS), optic nerve)

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from flames and hot surfaces. No smoking. Keep only in original packaging. Use only in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response : Absorb spillage to prevent material damage.
IF exposed or concerned: Call a POISON CENTER or doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice or attention.
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.

Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store in a corrosion resistant container with a resistant inner liner.

- Disposal** : Dispose of contents and container in a waste disposal facility, in accordance with all local, regional and national regulations.
- Other hazards** : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Hazardous ingredients	CAS number	Concentration %
- Formaldehyde	50-00-0	15 - 30
- Methyl alcohol	67-56-1	5 - 10
- Copper sulfate	7758-98-7	1 - 5
- Sulfuric acid	7664-93-9	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Skin contact** : Get medical attention immediately. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. If necessary, call a poison center or physician. In the event of any complaints or symptoms, avoid further exposure.
- Inhalation** : Get medical attention immediately. Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If necessary, call a poison center or physician.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If necessary, call a poison center or physician.
- Notes to medical doctor** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in section 2 and/or in section 11 of this safety data sheet.

Section 5. Fire-fighting measures

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical

Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides

Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Avoid breathing vapor or spray. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing vapor or spray. Wash hands thoroughly after handling. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage. Manipulate with care, avoid splashes.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Eliminate all ignition sources. Separate from alkalis. Separate from oxidizing materials. Keep away from metals. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Hazardous ingredients	CAS number	Exposure limit values
- Formaldehyde	50-00-0	OSHA PEL (United States). TWA: 0.75 ppm NIOSH REL (United States). TWA: 0.016 ppm ACGIH TLV (United States). STEL: 0.3 ppm
- Methyl alcohol	67-56-1	ACGIH TLV (United States). TWA: 200 ppm STEL: 250 ppm OSHA PEL (United States). TWA: 200 ppm
- Copper sulfate	7758-98-7	ACGIH TLV (United States). TWA: 1 mg/m ³ OSHA PEL (United States). TWA: 1 mg/m ³ NIOSH REL (United States). TWA: 1 mg/m ³

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal protective equipment

Eye/face	: Wear eye protection against chemical splashes.
Hands	: Wear chemical-resistant, impervious gloves.
Respiratory	: Wear appropriate respirator when ventilation is inadequate. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Other	: Wear appropriate protective clothing to prevent skin contact.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Section 9. Physical and chemical properties

pH	: <2	Physical state	: Liquid.
Specific gravity	: 1.11	Color	: Blue.
Odor threshold	: Not available.	Odor	: Pungent.
Boiling point	: 100°C		
Melting/freezing point	: Not available.		
Vapor pressure	: Not available.		
Vapor density	: Not available.		
Volatility	: Not available.		
Solubility	: Not available.		
Flash point	: Closed cup: 64°C		

Viscosity	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Flammable limits	: Not available.
Partition coefficient: n-octanol/water	: The product is much more soluble in water.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis oxidizing materials metals
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Likely routes of exposure : Dermal contact. Eye contact. Inhalation.

Potential acute health effects

Eye contact	: Causes serious eye damage.
Skin contact	: Causes severe burns. Toxic in contact with skin. May cause damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction.
Inhalation	: Toxic if inhaled. May cause respiratory irritation. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Ingestion	: May cause burns to mouth, throat and stomach. Harmful if swallowed.

Potentials symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Pain, watering, redness
Skin contact	: Pain or irritation, redness, blistering may occur
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation, coughing
Ingestion	: Stomach pains

Potential chronic health effects

Carcinogenic Effects	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenic Effects	: Suspected of causing genetic defects.
Teratogenic Effects	: No known significant effects or critical hazards.
Reproductive effects	: No known significant effects or critical hazards.
Sensitizer	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Numerical measures of acute toxicity

Hazardous ingredients	Species	Result	Dose
- Formaldehyde	Rat	LC50 Inhalation Gas.	463 ppm
	Rat	LD50 Oral	800 mg/kg
- Methyl alcohol	Rat	LC50 Inhalation Vapor	115.9 to 130.7 mg/l
	Rabbit	LD50 Dermal	15800 mg/kg
	Mouse	LD50 Oral	7300 mg/kg
	Rat	LD50 Oral	5630 mg/kg
- Copper sulfate	Rat	LD50 Dermal	20 mg/kg
	Rat	LD50 Oral	482 mg/kg

Section 12. Ecological information

Ecotoxicity : This material is harmful to aquatic life.

Aquatic ecotoxicity:

Hazardous ingredients	Result	Species	Exposure
- Formaldehyde	Acute EC50 4.9 mg/l Acute LC50 6.7 mg/l	Aquatic plants - Algae Fish	72 hours 96 hours
- Methyl alcohol	Acute EC50 13 mg/l Marine water	Fish	4 days
- Copper sulfate	Acute EC50 0.024 mg/l Acute LC50 2.5 mg/l	Daphnia Fish	48 hours 96 hours

Persistence and degradability


No results available.

Section 13. Disposal considerations

Waste handling and disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Reg. info.	UN #	Proper shipping name	Class	Packing group	Label
DOT Classification	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (- Sulfuric acid, - Formaldehyde, mixture)	8	III	

Marine pollutant : No.

Additional information : **Remarks** Limited quantity in 5L or less.

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Classification of this product and the SDS have been made in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200) in force in the United States of America. This product is a mixture for which no specific health effects data exist. The risks have therefore been evaluated based on the physicochemical properties of the product and its composition and may be overestimated.

Food contact : Not available.

US inventory (TSCA 8b) : All components are listed, exempted or notified.

SARA 302/304 Components

	CAS #	EHS
- Formaldehyde	50-00-0	Yes.
- Sulfuric acid	7664-93-9	Yes.

SARA 313 Components

The following substances are subject to reporting levels established by SARA Title III, section 313 :

- Formaldehyde	50-00-0
- Methyl alcohol	67-56-1
- Copper sulfate	7758-98-7

State regulations


Massachusetts : The following components are listed: - Formaldehyde; - Copper sulfate

New York : The following components are listed: - Formaldehyde; - Methyl alcohol; - Copper sulfate; - Sulfuric acid

New Jersey : The following components are listed: - Formaldehyde; - Methyl alcohol; - Sulfuric acid

Pennsylvania : The following components are listed: - Formaldehyde; - Methyl alcohol; - Copper sulfate; - Sulfuric acid

California Prop. 65

 **WARNING:** This product can expose you to Formaldehyde, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		2
Physical hazards		4
Personal protection	¥	

¥ The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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Notice to reader

The information provided in this Safety Data Sheet has been compiled from our experience and data presented in various technical publications. The information contained herein is based on the state of our current knowledge of the product concerned. It is the user's responsibility to verify the value of this information for the adoption of required safety measures. We reserve the right to revise Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the company to make sure that the Safety Data Sheet he owns is the last published.

Prepared by : Department of Regulatory Affairs of Kersia North America.

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