USG® PLASTER BONDING AGENT (CLEAR)

1. IDENTIFICATION

Product identifier
USG® Plaster Bonding Agent (Clear).
Synonyms
Sealer.
Recommended use
Interior use.
Recommended restrictions
Use in accordance with manufacturer's recommendations.
Manufacturer / Importer / Supplier / Distributor information/Company name
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2. HAZARD(S) IDENTIFICATION

Physical hazards
Not classified.
Health hazards

Sensitization, skin	Category 1
Specific target organ toxicity, repeated exposure	Category 2 (Kidney)

OSHA defined hazards
Not classified.
Label elements
Hazard symbol

Signal word
Danger.
Hazard statement
May cause an allergic skin reaction. May cause damage to organs (Kidney) through prolonged or repeated exposure.
Precautionary statement
Prevention
Do not breathe mist or vapor. Contaminated work clothing must not be allowed out of the work place. Wear protective gloves.
Response
If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage
Store away from incompatible materials.
Disposal
Dispose of in accordance with local, state, and federal regulations.
Hazard(s) not otherwise classified (HNOC)
None known.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Mixtures

Chemical name	CAS number	%
Ethylene glycol	107-21-1	< 3
Zink omadine	13463-41-7	< 0.5
Zink oxide	1314-13-2	< 0.5

Composition comments
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST-AID MEASURES

Inhalation
Exposure to mists may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.
Skin contact
Rinse area with plenty of water. Get medical attention if irritation develops and persists.
Eye contact
Do not rub eyes. Flush thoroughly with water. If burning, redness, itching, pain, or other symptoms develop or persist get medical attention.
Ingestion
Rinse mouth. Get medical attention if any discomfort occurs.
Most important symptoms/effects, acute and delayed
Under normal conditions of intended use, this product is not expected to be a health risk. Overexposure is highly unlikely at concentrations present in this product.
Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically.
General information
Ensure that medical personnel are aware of the material(s) involved.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media
Not applicable.
Specific hazards arising from the substance or mixture
Not a fire hazard.
Special protective equipment and precautions for firefighters
Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials.
Firefighting equipment/instructions
Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods
Cool material exposed to heat with water spray and remove it if no risk is involved.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up
Prevent entry into confined areas or water systems. Dilute with water and mop or wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Dispose of waste according to local regulations.
Environmental precautions
Avoid discharge to drains, sewers, and other water systems.

7. HANDLING AND STORAGE

Precautions for safe handling
Minimize dust production when mixing, or opening and closing bags. Avoid inhalation of dust. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices and use appropriate lifting techniques.
Conditions for safe storage, including any incompatibilities
Store in a cool, dry place. Store in a closed container away from incompatible materials, food, or drinking water. Protect from moisture. Keep away from heat. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Keep containers closed when not in use.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure limits US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m³	Aerosol.

Biological limit values
No biological exposure limits noted for the ingredient(s).
Exposure guidelines
No exposure standards allocated.

Appropriate engineering controls
Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear approved safety goggles.

Skin protection

Hand protection
It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

Other
Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Thermal hazards
None.

General hygiene considerations
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 separately from regular wash. Observe any medical surveillance requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state
Liquid.

Form
Acrylic emulsion.

Color
Gray to off-white.

Odor
Slight acrylic.

Odor threshold
Not applicable.

pH
8.5 - 9.5

Melting point/freezing point
0 °C

Initial boiling point and boiling range
100 °C

Flash point
Not applicable.

Evaporation rate
Not applicable.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
Not applicable.

Flammability limit - upper (%)
Not applicable.

Explosive limit - lower (%)
Not applicable.

Explosive limit - upper (%)
Not applicable.

Vapor pressure
Not applicable.

Vapor density
Not applicable.

Relative density
1 - 1.2 (H^2O=1)

Solubility(ies)

Solubility (water)
Soluble in water.

Other information

Bulk density
930-1000 kg/m^3

VOC (Weight %)
39.7 g/l (EPA Method 24)

10. STABILITY AND REACTIVITY

Reactivity
Not available.
Chemical stability
Stable at normal conditions.
Possibility of hazardous reactions
Hazardous polymerization does not occur.
Conditions to avoid
Contact with incompatible materials.
Incompatible materials
Strong oxidizing agents.
Hazardous decomposition products
None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Spray mist may irritate the respiratory system.
Skin contact
May cause an allergic skin reaction after a single exposure. Prolonged or repeated skin contact may cause irritation and/or sensitization.
Eyes contact
Direct contact with airborne particulates may cause temporary irritation.
Ingestion
May cause discomfort if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics
Irritation of eyes and mucous membranes. Skin irritation.
Information on toxicological effects
Acute toxicity
Low hazard for usual industrial or commercial handling by trained personnel.
Skin corrosion/irritation
Not a skin irritant.
Serious eye damage/eye irritation
Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization
Respiratory sensitization
Not classified but possible due to skin sensitization effect
Skin sensitization
May cause an allergic skin reaction after a single exposure or with repeated or prolonged skin contact.
Germ cell mutagenicity
Not mutagenic in bacterial or mammalian systems.
Carcinogenicity
This product is not classified as a carcinogen.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
Reproductive toxicity
Not available.
Specific target organ toxicity-single exposure
No data available, but none expected.
Specific target organ toxicity -repeated exposure
No data available, but none expected.
Aspiration hazard
Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing.
Chronic effects
Prolonged exposure may cause chronic effects.
Symptoms related to the physical, chemical and toxicological characteristics
Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing.
Acute toxicity
Not expected to be a hazard under normal conditions of intended use.

Components	Species	Value
Zinc diethyldithiocarbamate (CAS 137-30-4) **Acute** *Inhalation* LC50 *Oral* LD50 Other LD50	 Rat Guinea pig Rabbit Rat Mouse Rat	 0.081 mg/l, 4 Hours 100 mg/kg 100 mg/kg 320 mg/kg 17 mg/kg 23 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Components	Type	Value
Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) **Aquatic** Fish	LR50 Fathead minnow (Pimephales promelas)	> 1970 mg/l, 96 hours

Components	Type	Value
Zinc dimethyldithiocarbamate (CAS 137-30-4) **Aquatic** Fish	LC50 Bluegill (Lepomis macrochirus)	0.0097 mg/l, 96 hours

Persistence and degradability

No data available.

Bioaccumulative potential

Bioaccumulation is not expected.

Partition coefficient n-octanol / water (log Kow)

Zinc dimethyldithiocarbamate (CAS 137-30-4) 1.23

Mobility in soil

No data available.

Other adverse effects

None expected.

13. DISPOSAL CONSIDERATIONS

Disposal instructions

Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.

Local disposal regulations

Dispose of in accordance with local regulations.

Hazardous waste code

Not regulated.

US RCRA Hazardous Waste P List: Rat

Reference

Zinc diethyldithiocarbamate (CAS 137-30-4) P205

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT

Not regulated as a hazardous material

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as dangerous goods.

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

Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

15. REGULATORY INFORMATION

Saudi Arabian Inventory of Chemical Substance:

CAS #	107-21-1	Ethylene glycol
CAS #	13463-41-7	Zink omadine
CAS #	1314-13-2	Zink oxide

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date
1-July-2018
Revision date
1-September-2022
Version #
02
Further information
Crystalline silica: Raw materials in this product may contain respirable crystalline silica. Actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

Plaster of Paris: Is classified as a hazardous substance but is generally considered a safe material for routine use. When plaster of Paris is used responsibly it is not considered as a dangerous material. However, when mixed with water this product can become very hot. DO NOT attempt to make a cast enclosing any part of the body. Encasing any body part can cause serious burns and even amputation of the encased body part.

Zinc diethyldithiocarbamate (Ziram): In concentrations <0.1% Ziram is dangerous for the environment. Environmental exposure may cause long-term adverse effects in aquatic ecosystems.

NFPA Ratings:
Health: 1
Flammability: 0
Physical hazard: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Disclaimer
This information is provided without warranty. The information is believed to be correct.
This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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