

Safety Data Sheet

THR Crystals - C9222

SDS Revision Date:

5/20/2017

1. Identification

1.1. Product identifier

Product Identity

THR Crystals - C9222

Alternate Names

THR Crystals - C9222

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

Commercial mirroring.

1.3. Details of the supplier of the safety data sheet

Company Name

Angel Gilding
1945 Gardner Rd.
Broadview IL 60155 USA

Emergency

24 hour Emergency Telephone

708-383-3340

Customer Service: Angel Gilding

708-383-3340

2. Hazard(s) identification

Hazard classification

Health hazards

Acute toxicity (Oral)

Category 2

Skin corrosion/irritation

Category 2

Toxic to reproduction

Category 2

Label elements

Hazard symbols



Hazard statement: Fatal if swallowed. Suspected of causing cancer.
Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.
May form combustible dust concentrations in air..

Precautionary statement

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment. Prevent dust accumulation to minimize explosion hazard.

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Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. IF exposed or concerned: Get medical advice/attention. Collect spillage.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Mixtures

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
THIOUREA		62-56-6	99 - 100%

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

4. First aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion: Rinse mouth. Never give liquid to an unconscious person. Call a physician or poison control center immediately.

Inhalation: Move to fresh air. Call a physician or poison control center if symptoms persist. .

Skin contact: Wash the skin immediately with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Most important symptoms/effects, acute and delayed

Symptoms: Fatal if swallowed. May cause irritation to skin, eyes, and respiratory tract

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed.

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5. Fire-fighting measures

General fire hazards: Dust may form explosive mixture with air.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up: Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures: Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved

Environmental precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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7. Handling and storage

Precautions for safe handling:	Remove sources of ignition. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed. Keep in a cool, well-ventilated place. Store in a dry place.

8. Exposure controls and personal protection

Control Parameters

Occupational exposure limits

None of the components have assigned exposure limits.

Appropriate engineering controls

No data available.

Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) 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. An eye wash and safety shower must be available in the immediate work area.
Eye/face protection:	Wear safety glasses with side shields (or goggles) and a face shield. Use tight fitting goggles if dust is generated.
Skin protection	
Hand protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing.
Respiratory protection:	In case of inadequate ventilation use suitable respirator
Hygiene measures:	Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using the product. Wash contaminated clothing before reuse.

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9. Physical and chemical properties

Appearance

Physical state:	Solid
Form:	Crystalline solid.
Color:	White
Odor:	Odorless
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	176 °C
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	< 0.01 kPa (25 °C)
Vapor density:	No data available.
Relative density:	1.41 (20 °C)
Solubility(ies)	
Solubility in water:	0.47 g/l (0 °C) 133.9 g/l (25 °C) 704.1 g/l (100 °C)
Solubility (other):	alcohol: Soluble ether: Sparingly Soluble.
Partition coefficient (n-octanol/water):	-1.08
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

Other Information

Molecular weight:

76.12 g/mol (CH₄N₂S)

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

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Conditions to avoid:	Contact with incompatible materials.
Incompatible materials:	Strong oxidizing agents. Hydrogen peroxide (H ₂ O ₂) Nitric acid.
Hazardous decomposition products:	Thermal decomposition may produce oxides of carbon and nitrogen. Oxides of sulfur.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	Fatal if swallowed.
Inhalation:	Dust may irritate respiratory system.
Skin contact:	May be harmful in contact with skin.
Eye contact:	May irritate eyes

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:	LD 50 (Norway rat): 1,860 mg/kg LD 50 (Rat): 20 mg/kg
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Dermal

Product:	LD 50 (Rat): > 6,810 mg/kg LD 50 (Rabbit): > 2,800 mg/kg
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Inhalation

Product:	No data available.
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Repeated dose toxicity

Product:	No data available.
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Skin corrosion/irritation

Product:	May cause skin irritation.
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Serious eye damage/eye irritation

Product:	May irritate eyes.
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Respiratory or skin sensitization

Product:	Not a skin sensitizer
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Carcinogenicity

Product:	Suspected of causing cancer.
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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

THIOUREA Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

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No carcinogenic components identified

Germ cell mutagenicity

In vitro

Product: No mutagenic components identified.

In vivo

Product: No mutagenic components identified.

Reproductive toxicity

Product: Suspected of damaging fertility or the unborn child.

Specific target organ toxicity – single exposure

Product: No data available..

Specific target organ toxicity – repeated exposure

Product: No data available..

Aspiration hazard

Product: Not classified.

Other effects

Product: None known.

12. Ecological information

Ecotoxicity

Acute hazards to the aquatic environment

Fish

Product: No data available.

Aquatic invertebrates

Product: No data available.

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic invertebrates

Product: No data available.

Toxicity to aquatic plants

Product: No data available.

Persistence and degradability

Biodegradation

Product: No data available.

BOD/COD ratio

Product: No data available.

Mobility in the soil

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Product: No data available.

Bioaccumulative potential

Bioconcentration factor (BCF)

Product: No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow)

Product: Log Kow: -1.08

Other adverse effects: Toxic to aquatic life with long lasting effects..

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

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

14. Transport information

	DOT	IMDG	IATA
UN/ID	UN2811	UN2811	UN2811
Proper shipping name	Toxic solids, organic, n.o.s.(THIOUREA)	Toxic solids, organic, n.o.s.(THIOUREA)	Toxic solids, organic, n.o.s.(THIOUREA)
Hazard Class	6.1	6.1	6.1
Packing Group	III	III	III
Marine Pollutant	No	No	No

15. Regulatory information

US federal regulations

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

THIOUREA Reportable quantity: 10 lbs.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories – Acute (Immediate) Chronic (Delayed)

SARA 302 extremely hazardous substance

None present or none present in regulated quantities.

SARA 304 Emergency release notification

Chemical identity	RQ
THIOUREA	10 lbs.

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SARA 311/312 Hazardous chemical

<u>Chemical identity</u>	<u>Threshold Planning Quantity</u>
THIOUREA	500 lbs

SARA 313 (TRI reporting)

<u>Chemical identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
THIOUREA	10000 lbs	25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

US state regulations

US. California Proposition 65

THIOUREA Carcinogenic.

New Jersey Worker and Community Right-to-Know Act

THIOUREA Listed.

US. Massachusetts RTK – Substance List

THIOUREA Listed.

US. Pennsylvania RTK – Hazardous Substances

THIOUREA Listed.

US. Rhode Island RTK

THIOUREA Listed.

16. Other information

Health hazards

2

Flammability

1

NFPA

Reactivity

0

Special hazard

0

Prepared By
Revision Date

Product Stewardship
May 20, 2017

Disclaimer

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

End of Safety Data Sheet