

Safety Data Sheet

PFC Crystals - C9279

SDS Revision Date:

5/20/2017

1. Identification

1.1. Product identifier

Product Identity PFC Crystals - C9279

Alternate Names PFC Crystals - C9279

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

OSHA Hazards: No known OSHA hazards

Target Organs: None

Signal Word: Warning

Pictograms: None

GHS Label Elements, including precautionary statements:

Hazard Statements:

H303 May be harmful if swallowed.

Precautionary Statements:

None

Potential Health Effects

Eyes May cause eye irritation
Inhalation May be harmful if inhaled. Causes respiratory tract irritation
Skin May be harmful if absorbed through skin. Causes skin irritation.
Ingestion May be harmful if swallowed.

NFPA Ratings

Health 1
Flammability 0
Reactivity 0
Specific hazard Not Available

HMIS Ratings

Health 1
Fire 0
Reactivity 0
Personal E

Safety Data Sheet

PFC Crystals - C9279

SDS Revision Date:

5/20/2017

3. Composition/information on ingredients

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
POTASSIUM(I) hexacyanoIRON(III)	100	13746-66-2	237-323-3	K ₃ Fe(CN) ₆	329.24 g/mol

4. First aid measures

- Eyes** In case of eye contact, rinse with plenty of water and seek medical attention if irritation persists.
- Inhalation** Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if irritation persists.
- Skin** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if irritation persists.
- Ingestion** **Do Not Induce Vomiting!** Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if irritation persists.

5. Fire-fighting measures

- Suitable (and unsuitable) extinguishing media** Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.
- Special protective equipment and precautions for firefighters** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
- Specific hazards arising from the chemical** Emits toxic fumes (carbon oxides, nitrogen oxides, potassium oxides, iron oxides) under fire conditions. (See also Stability and Reactivity section).

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** See section 8 for recommendations on the use of personal protective equipment.
- Environmental precautions** Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
- Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

Safety Data Sheet

PFC Crystals - C9279

SDS Revision Date:

5/20/2017

7. Handling and storage

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. Exposure controls and personal protection

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
POTASSIUM(I) HexacyanoIRON(III)	5 mg/m ³	PEL	OSHA
	5 mg/m ³	CEIL	ACGIH
	1 mg/m ³	TLV	ACGIH
	5 mg/m ³ 4.7 ppm	CEIL	NIOSH
	1 mg/m ³	REL	NIOSH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes Wear chemical safety glasses or goggles.

Inhalation Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.

Skin Wear nitrile or rubber gloves, apron or lab coat.

Other Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

Safety Data Sheet

PFC Crystals - C9279

SDS Revision Date:

5/20/2017

9. Physical and chemical properties

Appearance (physical state, color, etc.)	Red crystalline powder.
Odor	Not Available
Odor threshold	Not Available
pH	6.0 - 9 at 329 g/l at 25°C (77°F)
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Density	1.85 (Water = 1)
Solubility (ies)	Soluble in cold water
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. Stability and reactivity

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not Available
Incompatible Materials	Strong acids, strong oxidizing agents, ammonia, hydrochloric acid, cyanides.
Hazardous Decomposition Products	Carbon oxides, nitrogen oxides, potassium oxides, iron oxides.

11. Toxicological information

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral - mouse - 2,970 mg/kg

Safety Data Sheet

PFC Crystals - C9279

SDS Revision Date:

5/20/2017

Carcinogenicity

- IARC** No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP** No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

- Skin** Irritation, redness, itchiness.
- Eyes** Irritation, redness, watering eyes, itchiness.
- Respiratory** Irritation, coughing, wheezing
- Ingestion** Irritation, nausea, vomiting, diarrhea.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Mutagenic for bacteria and/or yeast. May affect genetic material.
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. Ecological information

Ecotoxicity

- Aquatic Vertebrate** LC50 - Oncorhynchus mykiss (rainbow trout) - 869 mg/l - 96 h
- Aquatic Invertebrate** EC50 - Daphnia magna (Water flea) - 549 mg/l - 48 h
- Terrestrial** Not Available

- Persistence and Degradability** Not Available
- Bioaccumulative Potential** Not Available
- Mobility in Soil** Not Available
- PBT and vPvB Assessment** Not Available
- Other Adverse Effects** Not Available

13. Disposal considerations

- Waste Residues** Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

Safety Data Sheet PFC Crystals - C9279

SDS Revision Date:

5/20/2017

Product Containers Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. Transport information

	DOT	IMDG	IATA
14.1 UN/ID	Not regulated	Not regulated	Not regulated
14.2 Proper shipping name			
14.3 Hazard Class			
14.4 Packing Group			
14.5 Marine Pollutant	No		

15. Regulatory information

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	No SARA Hazards
SARA 312	No SARA Hazards
SARA 313	Not Listed
WHMIS Canada	Not Listed

16. Other information

Prepared By	Product Stewardship
Revision Date	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