01321-1004

SAFETY DATA SHEET (SDS)

Jacquard Products
Manufactured by Rupert, Gibbon & Spider, Inc.
P.O. Box 425 | Healdsburg, CA 95448
800.442.0455 | Fax: 707.433.4906
www.jacquardproducts.com

Revision Date: 01/17/2024

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	**POTASSIUM FERRICYANIDE**	
Product Number/Code:	**CHM0101, CHM1101, CHM2101, JCY1100, JCY1101, JCY9000**	
Recommended Use:	Creating cyanotype prints	
Synonym(s):	Potassium hexacyanoferrate (III)	
Restrictions on use:	None known	
Manufacturer:	Rupert, Gibbon & Spider, Inc. 1147 Healdsburg Ave. Healdsburg, CA 95448 1-800-442-0455 / 707-433-9577	
Emergency Number:	**ChemTel, Inc.** - Contract #MIS9128344	
	North America: **1-800-255-3924**	International: **1-813-248-0585**

SECTION 2 - HAZARD(S) IDENTIFICATION

This product is not considered to be or contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, reference 29 CFR 1910.1200.	
Toxicological Data on Ingredients:	
Hazard Classification	Not hazardous
Physical Hazards:	Not classified
Health Hazards:	Not classified
Environmental Hazards:	Not classified
Label Elements	
Pictogram:	None
Signal Words:	None
Hazard Statements-EU:	The mixture does not meet the criteria for classification.
Precautionary Statements-EU:	
Prevention:	See section 8
Response:	See sections 4, 5 & 6
Storage:	See section 7
Disposal:	See section 13
Hazard(s) not otherwise classified:	R32: Contact with acids liberates very toxic gas.

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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	Content in percent (%)*	CAS #	EC #
Potassium hexacyanoferrate(III)	100.0%	13746-66-2	237-323-33

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
In the event of skin contact:	Immediately wash with soap and water; rinse thoroughly. Seek immediate medical advice.
In the event of eye contact:	Rinse opened eye for several minutes under running water. Consult a physician.
In the event of swallowing:	Seek medical treatment.
In the event of exposure by inhalation:	Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm. Seek immediate medical advice.
Most important symptoms and effects, acute and delayed:	No data available
Indication of any immediate medical attention and special treatment needed:	No data available

SECTION 5 - FIREFIGHTING MEASURES

Extinguishing media:	Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture:	If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide, Nitrogen oxides (NOx), Hydrogen cyanide (HCN), Metal oxide fume
Advice for fire fighters:	Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Mount respiratory protective device. Use personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
Methods and material for containment and clean up:	Pick up mechanically.
Prevention of secondary hazards:	No special measures required.
Environmental procedures:	Do not allow material to be released to the environment without official permits. Do not allow product to enter drains, sewage systems, or other water courses. Do not allow material to penetrate the ground or soil.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.
Information about protection against explosions and fires:	No data available
Conditions for safe storage including any incompatibilities:	
Requirements to be met by storerooms and receptacles:	No special requirements
Information about storage in one common storage facility:	Store away from oxidizing agents. Do not store together with acids. Store in the dark.
Further information about storage conditions:	Keep container tightly sealed. Store in cool, dry conditions in well-sealed containers. Protect from exposure to light.
Specific end use(s):	No data available

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:		
Components with limit values that require monitoring in the workplace:	13746-66-2 Potassium hexacyanoferrate(III) 100.0%	
Occupational exposure limits:	PEL (USA) Long-term value:	5 mg/m^3 as CN; Skin
	REL (USA) Long-term value:	1 mg/m^3 as Fe
	TLV (USA) Long-term value:	1 mg/m^3 as Fe
	Additional information:	No data
Exposure controls:	Follow typical protective and hygienic practices for handling chemicals. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment.	
Individual protection measures, such as personal protective equipment:		
Eye/face protection:	Safety glasses	
Skin protection:	Protective work clothing	
Hand protection:	Impervious gloves. Inspect gloves prior to use. Suitability of gloves should be determined both by material and quality, the latter of which may vary by manufacturer. Penetration time of glove material (in minutes): No data available.	
Other protective equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Respiratory protection:	Use suitable respirator when high concentrations are present.	

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Crystalline
Color:	Orange
Type of Odor:	No data available
Odor threshold:	No data available
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	No data available
Melting Point/Freezing Point:	Decomposes
Flammability Classification:	No data available
Sublimination temperature/start:	No data available
Flash Point:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Flammability Limits (lower/upper):	No data available
Evaporation rate:	N/A
Vapor Pressure:	N/A
Vapor Density (Air=1):	N/A
Octanol/Water Partition Coefficient (log Pow):	No data available
Specific Gravity:	N/A
Bulk Density:	N/A
Water Solubility:	20°C/68°F: 464 g/l
pH:	N/A
Viscosity:	N/A
Explosive Properties:	Product does not present an explosion hazard.
Oxidizing Properties:	N/A
Molecular Formula:	N/A
Molecular Weight:	N/A
Relative Density:	N/A

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Contact with acids liberates very toxic gas.
Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Contact with acids liberates very toxic gas.
Conditions to avoid:	No data available
Incompatible materials:	Oxidizing agents, acids, light
Thermal decomposition/conditions to be avoided:	Decomposition will not occur if used and stored according to specifications.
Hazardous decomposition products:	Carbon monoxide, Carbon dioxide, Hydrogen cyanide, Metal oxide fume, Nitrogen oxides

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SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity (list all possible routes of exposure)	
The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product. LD/LC50 values that are relevant for classification:	
Acute Oral Toxicity:	LD50 2,970 mg/kg (mouse)
Acute Dermal Toxicity:	No data available
Acute Inhalation Toxicity:	No data available
Skin Corrosion/Irritation:	May cause irritation.
Serious Eye Damage / Eye Irritation:	May cause irritation.
Respiratory or Skin Sensitization:	No sensitizing effects known.
Germ Cell Mutagenicity:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.
Carcinogenicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive Toxicity:	No effects known.
Specific Target Organ Toxicity - single exposure (STOT-se):	No effects known.
Specific Target Organ Toxicity - repeated exposure (STOT-re):	No effects known.
Aspiration Hazard:	No effects known.
Sub-acute to chronic toxicity:	No effects known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
Potential Health Effects:	
Skin Contact:	No effects known.
Eye Contact:	No effects known.
Ingestion:	No effects known.
Inhalation:	No effects known.
Chronic Health Effects:	No effects known.
Additional Data:	No effects known.

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SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:	
Acute/prolonged toxicity to fish:	No data available
Acute/prolonged toxicity to aquatic invertebrates:	No data available
Acute/prolonged toxicity to aquatic plants:	No data available
Toxicity to bacteria, to soil dwelling organisms and to terrestrial plants:	No data available
Chronic toxicity to aquatic organisms:	No data available
General effect:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Results of PBT and vPvB assessment (EC reg. 453/2010):	N/A
Other adverse effects:	No data available
Additional ecological information:	Disposal must be made according to official regulations.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Disposal:	Consult official regulations to ensure proper disposal.
Container Disposal:	Disposal must be made according to official regulations.

SECTION 14 - TRANSPORT INFORMATION

General Information:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN number:	Not relevant
UN proper shipping name:	Not relevant
Transport hazard class:	Not relevant
Packing group:	Not relevant
Environmental Hazards:	
Environmentally hazardous substance:	No
Special precautions for user:	Not relevant

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SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:	
Hazard categories	
U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory:	All components of this product are listed.
Canadian Domestic Substances List (DSL):	All components of this product are listed.
SARA Section 313 (specific toxic chemical listings):	Substance is not listed.
Prop 65 - Chemicals known to cause cancer:	Substance is not listed.
Other regulations, limitations and prohibitive regulations:	
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006:	Substance is not listed.
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.	Substance is not listed.
Annex XIV of the REACH Regulations (requiring authorization for use):	Substance is not listed.
REACH - Pre-registered substances:	Substance is listed.
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

SECTION 16 - OTHER INFORMATION

HMIS Hazard ID:	
Health:	1
Flammability:	1
Reactivity:	1
Health (acute effects):	1
Physical Hazard:	1
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect	

Disclaimer:
The information contained in this SDS is based on data from sources considered to be reliable but Rupert, Gibbon & Spider, Inc. does not guarantee the accuracy or completeness thereof. Rupert, Gibbon & Spider, Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

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National Chemical Inventories:	
All components of this product are listed on the following chemical substance inventories: TSCA (USA)	
DSL	(Canada)
EINECS	(Europe)
ENCS	(Japan) ECL
	(Korea)
AICS	(Australia) NZIoC
	(New Zealand)
PICCS	(Philippines)
IECSC	(China)

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Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	International carriage of Dangerous goods by Road
AICS	Australian Inventory of Chemical Substances
ATE	Acute Toxicity Estimate
BfR	Bundesinstitut für Risikobewertung recommendations for food contact materials
BCF	Bioconcentration Factor
BOD5	5-day Biochemical Oxygen Demand
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CLP	Classification, Labeling and Packaging regulation
COD	Chemical Oxygen Demand DOT Department of Transportation DSL Domestic Substances List
EINECS	European Inventory of Existing Chemical Substances
ECL	Existing Chemicals List (Korea)
ENCS	Existing and New Chemical Substances Inventory (Japan)
EN 689	Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.
ERG	Emergency Response Guide
GHS	Globally Harmonized System
HMIS	Hazardous Materials Information System IARC International Agency for Research on Cancer IATA International Air Transport Association
ICAO	International Civil Aviation Organization IDLH Immediately Dangerous to Life and Health IMDG International Maritime Dangerous Goods
LD50	Lethal Dose to 50% of test animal population
MAK	Maximale Arbeitsplatz Konzentration
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent, Bioaccumulative and Toxic vPvB Very Persistent and Very Bioaccumulative PEL Permissible exposure limit
PICCS	Philippine Inventory of Commercial Chemical Substances
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemical Substances
RID	International carriage of dangerous goods by Rail SARA Superfund Amendments and Reauthorization Act STEL Short Term Exposure Limit
SVHC	Substance of Very High Concern
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
VOC	Volatile Organic Compound
WGK	Wassergefahrdungsklasse (Water Hazard Class) WHMIS Workplace Hazardous Material Identification System