MATERIAL SAFETY DATA SHEET

Date Printed: 02/28/2007 Date Updated: 11/03/2006 Version 1.10

Section 1 - Pro	duct and Compa	any Information	
Product Name Product Number Brand		POTASSIUM FERRICYANIDE(III), 99% 208019 ALDRICH	
Company Address		Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 US	
Technical Phone: Fax:		800-325-5832 800-325-5052	
Emergency Phone	:	314-776-6555	
Section 2 - Com	position/Info	rmation on Ingredient	
Substance Name POTASSIUM FERRI	CYANIDE	CAS # 13746-66-2	SARA 313 No
<pre>Formula K3Fe(CN)6 Synonyms Tripotassium hexacyanoferrate * Ferrate(3-), hexakis(cyano-kappa-C)-, tripotassium, (OC-6-11) * Iron potassium cyanide * Potassium cyanoferrate * Red prussiate * Potassium ferricyanate * Potassium ferricyanide * Tripotassium ferric hexacyanide * Tripotassium ferriccyanide * Tripotassium hexacyanoferrate(3-) * Tripotassium iron hexacyanide * POTASSIUM HEXACYANOFERRATE (III) RTECS Number: LJ8225000</pre>			rate
Section 3 - Haz	ards Identific	cation	
EMERGENCY OVERVIEW Contact with acids liberates very toxic gas.			
HMIS RATING HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0			
NFPA RATING HEALTH: 0 FLAMMABILITY REACTIVITY:	-		
For additional	information o	n toxicity, please refer to Sectio	on 11.
Section 4 - Fir	st Aid Measure	es	
	, wash out mou all a physicia	uth with water provided person is an.	

INHALATION EXPOSURE If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. DERMAL EXPOSURE In case of contact, immediately wash skin with soap and copious amounts of water. EYE EXPOSURE In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. Section 5 - Fire Fighting Measures FLASH POINT N/A AUTOIGNITION TEMP N/A FLAMMABILITY N/A EXTINGUISHING MEDIA Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. FIREFIGHTING Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. Section 6 - Accidental Release Measures PROCEDURE(S) OF PERSONAL PRECAUTION(S) Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. METHODS FOR CLEANING UP Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Section 7 - Handling and Storage HANDLING User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. STORAGE Suitable: Keep tightly closed. Section 8 - Exposure Controls / PPE ENGINEERING CONTROLS Safety shower and eye bath. Mechanical exhaust required. PERSONAL PROTECTIVE EQUIPMENT Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection

<pre>from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Hand: Protective gloves. Eye: Chemical safety goggles. GENERAL HYGIENE MEASURES Wash thoroughly after handling. Section 9 - Physical/Chemical Properties</pre>				
Appearance	Physical State: Solid			
	Color: Red Form: Fine crystals			
Property	Value At Temperature or Pressure			
Molecular Weight pH BP/BP Range MP/MP Range Freezing Point Vapor Pressure Vapor Density Saturated Vapor Conc. SG/Density Bulk Density Odor Threshold Volatile% VOC Content Water Content Solvent Content Evaporation Rate Viscosity Surface Tension Partition Coefficient	329.26 AMU 6.0 - 9.0 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A			
Decomposition Temp. Flash Point Explosion Limits Flammability Autoignition Temp Refractive Index Optical Rotation Miscellaneous Data Solubility	N/A N/A N/A N/A N/A N/A N/A Solubility in Water:complete, orange-brown 1 M in H2O, 20°C			

N/A = not available

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions of Instability: May discolor on exposure to light. Materials to Avoid: Strong acids, Strong oxidizing agents, Ammonia, Hydrochloric acid, Avoid contact with sodium nitrite and chromium trioxide, Heating to decomposition or contact with acids or acid vapors can liberate poisonous cyanide vapors.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen cyanide.

HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur Section 11 - Toxicological Information ROUTE OF EXPOSURE Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed. SIGNS AND SYMPTOMS OF EXPOSURE To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. TOXICITY DATA Oral Mouse 2970 mg/kg LD50 Section 12 - Ecological Information ACUTE ECOTOXICITY TESTS Test Type: EC50 Daphnia Species: Daphnia magna Time: 48 h Value: 549 mg/l Test Type: LC50 Fish Species: Onchorhynchus mykiss (Rainbow trout) Time: 96 h Value: 869 mg/l Test Type: LC50 Fish Species: Pimephales promelas (Fathead minnow) Time: 96 h Value: > 100 mg/l Section 13 - Disposal Considerations APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Section 14 - Transport Information DOT Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. UN#: 3077

Class: 9 Packing Group: Packing Group III Hazard Label: Class 9 PIH: Not PIH IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION R: 32 Risk Statements: Contact with acids liberates very toxic gas. US CLASSIFICATION AND LABEL TEXT Risk Statements: Contact with acids liberates very toxic gas. UNITED STATES REGULATORY INFORMATION SARA LISTED: No TSCA INVENTORY ITEM: Yes CANADA REGULATORY INFORMATION WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: Yes NDSL: No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a quide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.