

# Safety Data Sheet

Version 3.10 Revised: 2016-05-02

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Potassium Ferricyanide

Other means of identification

Product Code(s) A3640

Synonyms No information available

**Product Use** For Laboratory Research Use Only.

Supplier/Manufacturer

Biomatik Corporation 9-140 McGovern Dr.

Cambridge, Ontario N3H 4R7

Canada

Telephone Number 1-519-489-7195
E-mail Address info@biomatik.com

Emergency Telephone Number Chemtrec 1-800-424-9300

# 2. HAZARDSIDENTIFICATION

#### Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

### Label elements

#### **Emergency Overview**

# Warning

### Hazard statements

May cause respiratory irritation. May cause drowsiness or dizziness

H315 - Causes skin irritation

H319 - Causes serious eye irritation



Appearance Dark orange

Physical State Crystals

Odor No information available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not regulated

**Other Information** 

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Potassium ferricyanide	13746-66-2	237-323-3	95-100	Not applicable

### 4. FIRST AID MEASURES

#### **First Aid Measures**

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth.

#### Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

# Suitable Extinguishing Media

Use extinguishing media appropriate to surrounding fire conditions.

Unsuitable Extinguishing Media No information available.

#### **Specific Hazards Arising from the Chemical**

No information available.

**Hazardous Combustion** 

Nitrogen oxides (NOx). Carbon oxides. Hydrogen cyanide.

**Products** 

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal protection** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

# 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

Handling Handle in accordance with good industrial hygiene and safety practice. Light Sensitive.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light.

Incompatible Products Strong acids. Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium ferricyanide	-	-	-

## Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**Hygiene Measures**Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Crystals
Appearance Dark orar

AppearanceDark orangeOdorNo information availableColorNo information availableOdor ThresholdNo information available

Property<br/>pHValues<br/>No information availableRemarks • Method

pH Melting point/freezing point

Boiling Point/Range No information available
Flash Point (High in °C) No information available
Evaporation Rate No information available
Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density

No information available
No information available
No information available

Specific Gravity 1.85

Water Solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

Other Information

Softening Point No information available

Molecular Weight 329.25

VOC ContentNo information availableDensityNo information availableBulk DensityNo information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical Stability**

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

**Conditions to Avoid** 

Protect from light.

#### **Incompatible Materials**

Strong acids. Strong oxidizing agents.

# **Hazardous Decomposition Products**

Nitrogen oxides (NOx). Carbon oxides. Hydrogen cyanide.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

### **Product Information**

Inhalation May cause drownsiness and dizziness based on components. May cause irritation of

respiratory tract.

**Eye Contact** Irritating to eyes.

**Skin Contact** Irritating to skin.

**Ingestion** There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium ferricyanide	-	-	-

#### Information on toxicological effects

**Symptoms** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Potassium ferricyanide	-	-	-	-

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.
No information available.

### Numerical measures of toxicity - Product Information

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Potassium ferricyanide	-	-	-

#### Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Potassium ferricyanide	-
1 otassiumemeyanide	-

Other Adverse Effects No information available

## 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium ferricyanide	-	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Potassium ferricyanide	-	-	-	-

Chemical Name	California Hazardous Waste Status
Potassium ferricyanide	-

#### 14. TRANSPORTINFORMATION

**DOT** Not regulated

IATA Not regulated Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS IECSC** Complies Complies KECL **PICCS** Complies **AICS** Complies

# Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Component	SARA 313 - Threshold Values %
Potassium ferricyanide	1.0

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium ferricyanide	-	-	-	-

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Potassium ferricyanide	-	-	-

## **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65	
Potassium ferricyanide	-	

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium ferricyanide	-	-	-

## **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not regulated

### **16. OTHER INFORMATION**

### **Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**