

#### 1. Identification of the substances/ mixture and of the company/ undertaking

#### **1.1 Product Identifiers**

Product CodeGRM1048Product NamePotassium ferrocyanide trihydrate, A.R.

**1.2** Relevant identified uses of the substance or mixture and uses advised against Identified uses Laboratory chemicals, Manufacture of substances

#### **1.3** Details of the supplier of the safety data sheet

Produced by	HiMedia Laboratories Pvt. Ltd.
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#### 1.4 Emergency Tel. No.

Emergency Tel.No. Please contact the regional HiMedia representation in your country

#### 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]** Hazardous to the aquatic environment, long-term hazard (Category 3)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC** Contact with acids liberates very toxic gas.

# 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008 [CLP]

Hazard Statement(s) H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s) P273 Avoid release to the environment.

#### According to European Directive 67/548/EEC as amended.

R-Phrase(s) R32 Contact with acids liberates very toxic gas.

S-Phrase(s)S22Do not breathe dust.S24/25Avoid contact with skin and eyes.

2.3 Other hazards - none

#### **3.** Composition/Information on Ingredients

#### 3.1 Substances

Synonym : Potassium hexacyanoferrate(II) trihydrate

Molecular Formula	$K_4$ Fe(CN) <sub>6</sub> .3H <sub>2</sub> O
Molecular Weight.	422.39

Component		Concentration		
Potassium ferrocyanide trihydrate, A.R.				
CAS-No.	14459-95-1			
EC-No.	237-722-2			

# 4. First Aid Measures

#### 4.1 Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air.If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. consult a physician.

# No data available4.3 Indication of immediate medical attention and special treatment needed

Most important symptoms and effects, both acute and delayed

# No data available

4.2

# 5. Fire Fighting Measures

# 5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Potassium oxides, Iron oxides, Hydrogen cyanide (hydrocyanic acid)

# 5.3 **Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further information** No data available

# 6 Accidental Release Measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### **6.2 Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3** Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4 **Reference to other sections** For disposal see Section 13

For disposal see Section 13.

# 7 Handling and Storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

#### 7.3 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature : Store below 30°C

### 7.3 Specific end uses

No data available

#### 8 Exposure Controls/Personal Protection

#### 8.1 Control parameters

Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

#### Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands face after working with the substance

#### **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (Without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific work place.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK(EN 14387) respirator cartridges as a backup to the engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Environment exposure controls** Do not empty into drains

#### 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	Yellow crystals or powder
Odour	No data available
Odour Threshold	No data available
Odour Threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available

Water Solubility Partition coefficient: n-octanol/Water Autoignition Temperature Decomposition Temperature Viscosity Explosive properties Oxidizing properties No data available No data available

#### **9.2 Other safety information** No data available

#### **10** Stability and Reactivity

- 10.1 Reactivity
- No data available 10.2 Chemical stability
  - No data available
- **10.3 Possibility of hazardous reactions** No data available
- **10.4** Conditions to avoid No data available
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** Other decomposition products - No data available

#### 11 Toxicological Information

**11.1 Information on toxicoligical effects** Acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than oregula to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** No data available Specific target organ toxicity- single exposure No data available Aspiration hazard No data available

#### **Potential Health Effects Inhalation.** Refer Section 2 **Skin**

Refer Section 2 Eyes Refer Section 2 Ingestion Refer Section 2

**Additional Information** RTECS : Not Available

#### 12.1 Toxicity

No data available

- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- **12.5 PBT and vPvB assessment** No data available
- **12.6 Other adverse effects** No data available

#### **13** Disposal Considerations

#### 13.1 Waste treatments methods Product

Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose of this material.

# **13.2** Contaminated packaging

Dispose of as unused product.

#### 14 Transport Information

14.1 UN-No.

ADR/RID: - IMDG: - IATA: -

#### 14.2 UN proper shipping name

ADR/RID	: no dangerous goods
IMDG	: no dangerous goods
IATA	: no dangerous goods

- **14.3 Transport hazard class(es)** ADR/RID: - IMDG: - IATA: -
- **14.4 Packaging group** ADR/RID: - IMDG: - IATA: -
- 14.5 Environmental hazards

   ADR/RID: No
   IMDG: Marine Pollutant:No
   IATA: No

# **14.6** Special precautions for use No data available

#### 15 Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC) No.1907/2006

- **15.1 Safety health and environment regulations/legislation specific for the substance or mixture** No data available
- 15.2 Chemical Safety Assessment

No data available

# 16 Other Information

#### Further information

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