Honeywell Fluka

Potassium hexacyanoferrate(III)

31253-1KG

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier				
Product name	:	Potassium hexacyanoferrate(III)		
SDS-number	:	00000020692	00000020692	
Type of product	:	Substance		
Remarks	:	SDS according to Art. 31 of Re	gulation (EC) 1907/2006.	
Chemical name	:	Tripotassium hexacyanoferrate)	
CAS-No.	:	13746-66-2		
REACH Registration Number	:	no data available		
1.2. Relevant identified us	ses	of the substance or mixture an	d uses advised against	
Use of the Substance/Mixture	:	Laboratory chemicals		
Uses advised against	:	none		
1.3. Details of the supplier of the safety data sheet				
Company	:	Honeywell International Inc.Honeywell International, Inc.115 Tabor Road115 Tabor Road07950-2546 Morris PlainsMorris Plains, NJ 07950-2546USAUSA		
Telephone For further information, please contact:	: : SafetyDataSheet@Honeywell.com			
1.4. Emergency telephone number				
Emergency telephone number Country based Poison	:	+1-703-527-3887 (ChemTrec-Transport) +1-303-389-1414 (Medical) see chapter 15.1		
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Control Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Eye irritation Category 2 H319 Causes serious eye irritation. Long-term (chronic) aquatic hazard Category 2 H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms



Signal word	: Warning	
Hazard statements	: H319 H411	Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
	EUH032	Contact with acids liberates very toxic gas.
Precautionary statements	: P264 P273 P280 P337 + P313	Wash skin thoroughly after handling. Avoid release to the environment. Wear eye protection/ face protection. If eye irritation persists: Get medical advice/ attention.
	P391 P501	Collect spillage. Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

Contact with acids liberates very toxic gas. Results of PBT and vPvB assessment, see chapter 12.5. Page 2 / 16



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SECTION 3: Composition/information on ingredients

3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Tripotassium hexacyanoferrate	13746-66-2 237-323-3	Eye Irrit. 2; H319 Aquatic Chronic 2; H411	100 %	

3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

Skin contact:

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or persists.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Call a physician if irritation develops or persists.

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Ingestion:

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If victim is fully conscious, give a cupful of water. Call a physician.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) Dry powder

Extinguishing media which shall not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Some risk may be expected of corrosive and toxic decomposition products. Heating or fire can release toxic gas. carbon oxides (CO, CO2), nitrogen oxides (NOx). Hydrogen cyanide (hydrocyanic acid) The product itself does not burn.

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5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.Do not use a solid water stream as it may scatter and spread fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe dust.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment. Pick for disposal in tightly closed containers

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Exhaust ventilation at the object is necessary. Wear personal protective equipment. Never return unused material to storage receptacle. Protect against light.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures:

When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Remove and wash contaminated clothing before re-use.

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No data available

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep only in the original container, tightly closed, in a well ventilated place.

Further information on storage conditions: Do not leave vessels/containers open Avoid product residues in/on containers. Protect against light.

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

DNEL/ PNEC-Values

No DNEL-data availa	ble.		
Tripotassium			No data available
hexacyanoferrate			

No PNEC data available. Tripotassium hexacyanoferrate

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345. Do not breathe dust.

Engineering measures Use with local exhaust ventilation.

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Personal protective of Respiratory protection In the case of dust or in Hand protection: Glove material: Natura Break through time: > Glove thickness: 0,6 m Lapren®706 Gloves must be insper Replace when worn. Remarks:Supplement substances by analog Due to varying condition the glove manufacture 50% of the recomende Manufacturer's direction the glove manufacture 50% of the recomende Manufacturer's direction Suitable gloves tested Vertrieb@kcl.de Eye protection: Tightly fitting safety go Skin and body protect Wear suitable protection Wear as appropriate: Protective suit Environmental expose Handle in accordance	equipment c aerosol formation use respirator with an approved filt al Latex 480 min m cted prior to use. ary note: The specifications are based on information y. ons (e.g.temperature or other strains) it must be con ove in practice may be much shorter than the perme 74. s of practical use often deviate from standardised co reccomends to use the chemical protective glove ir ed permeation time. ons for use should be observed because of great div according EN 374 are supplied e.g. from KCL Gmbl biggles <i>ion:</i> ve equipment. atory coat. sure controls with local environmental regulations and good indus	ter. n and tests from similar nsidered that the usage of a ation time determined in onditions according EN 374 n practice not longer than versity of types . H, D-36124 Eichenzell,
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Colour	:	red
Odour	:	odourless
molecular weight	:	329,26 g/mol
Melting point/range	:	Decomposes without melting.
Boiling point/boiling range	:	Not applicable Decomposes on heating.
Flammability	:	The product is not flammable.
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 300 °C Decomposition temperature
рН	:	6 Concentration: 50 g/l at 20 °C
Auto-ignition temperature	:	not auto-flammable
Viscosity, kinematic	:	No data available
Water solubility	:	464 g/l at 20 °C
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	negligible
Density	:	ca. 1,85 g/cm3 at 20 °C Page 8 / 16

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Bulk density	: ca. 1.050 kg/m3
Relative vapour density	: No data available
9.2 Other Information	
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Evaporation rate	: No data available
Viscosity, dynamic	: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

> 300 °C Decomposition temperature

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur. Decomposes on heating. Contact with acids liberates toxic gas.

10.4. Conditions to avoid

Avoid dust formation. Protect from heat/overheating.

10.5. Incompatible materials

Strong oxidizing agents

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Acids

10.6. Hazardous decomposition products

Hydrogen cyanide (hydrocyanic acid) carbon oxides (CO, CO2). Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity: No data available

Acute dermal toxicity: No data available

Acute inhalation toxicity: No data available

Skin irritation: No data available

Eye irritation: Species: Rabbit Result: Eye irritation Method: OECD Test Guideline 405

Respiratory or skin sensitisation: No data available

Aspiration hazard: No data available

11.2. Information on other hazards

Endocrine disrupting properties No data available

Other information: Does not require a hazard warning label, but the normal safety precautions for handling of chemicals must be observed.

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SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish: LC50 Species: Cyprinus carpio (Carp) Value: 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203

Toxicity to aquatic plants: EC50 Species: Pseudokirchneriella subcapitata (microalgae) Value: 1,7 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

Toxicity to aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Value: 59 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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. Results of PBT and vPvB assessment

No data available

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12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Do not flush into surface water or sanitary sewer system. We have no quantitative data concerning the ecological effects of this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product: Dispose according to legal requirements.

Packaging: Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information: Provisions relating to waste: EC Directive 2006/12/EC; 2008/98/EEC Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information 14.1 UN number ADR/RID:3077 IMDG:3077 IATA:3077 14.2 UN proper shipping name ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIPOTASSIUM HEXACYANOFERRATE) IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIPOTASSIUM HEXACYANOFERRATE) IATA:Environmentally hazardous substance, solid, n.o.s.(Tripotassium hexacyanoferrate) 14.3 Transport hazard class(es) ADR/RID: 9 IMDG: 9 IATA: 9 14.4 Packaging group IMDG: III IATA: III ADR/RID: III

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14.5 Environmental hazards ADR/RID: yes

Marine pollutant: yes

14.6 Special precautions for user

Not regulated for transport when single and combination packagings are <5L for liquids or <5kg for solids per ADR 2.2.9.2.10, IMDG 2.10.3 and IATA SP A197).

14.7 Maritime transport in bulk according to IMO instruments No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Basis	Value	Remarks
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of \geq 0.1 % (w/w).

Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250

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Finland	9471977	
France	+33(0)145425959	
Greece	+30 210 779 3777	
Hungary	(+36-80)201-199	
Iceland	5432222	
Ireland	+353(1)8092166	
Italy	0382 24444	
	Berlin : 030/19240	
	Bonn : 0228/19240	
	Erfurt : 0361/730730	
Germany	Freiburg : 0761/19240	
Connuny	Göttingen : 0551/19240	
	Homburg : 06841/19240	
	Mainz : 06131/19240	
	Munich : 089/19240	
Latvia	+37167042473	

Romania	+40 21 318 3606		
Slovakia (NTIC)	+421 2 54 774 166		
Slovenia	+386 1 400 6051		
Spain	+34915620420		
· ·	112 (begär		
Sweden	Giftinformation);+46104566786		
Switzerland	145		
United Kingdom	(+44) 844 892 0111		

Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)

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On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

Tripotassium	:	H319	Causes serious eye irritation.
hexacyanoferrate		H411	Toxic to aquatic life with long lasting effects.

Further information

All directives and regulations refer to amended versions. Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations: EC European Community CAS Chemical Abstracts Service DNEL Derived no effect level PNEC Predicted no effect level vPvB Very persistent and very biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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