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Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product Description: Cat No. Synonyms

Potassium pentachloroaquaruthenium(III) 316370000; 316370010 Dipotassium aquapentachlororuthenate(III)

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

Details of the supplier of the safety data sheet Company Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium E-mail address begel.sdsdesk@thermofisher.com Emergency Telephone Number For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not hazardous

Classification according to EU Directives 67/548/EEC or 1999/45/EC For the full text of the R phrases mentioned in this Section, see Section 16 R -phrase(s) none

Label Elements

Signal Word

None

Hazard Statements

Other Hazards No information available.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
Dipotassium	EEC No. 238-	100	14404-33-2	-	-	-
aquapentachlororuthenate	374-4					
14404-33-2						

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of first aid measures Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain medical attention
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Obtain medical attention
Ingestion	Clean mouth with water Get medical attention
Inhalation	Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Obtain medical attention
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media Suitable Extinguishing Media Carbon dioxide (CO₂) Dry chemical chemical foam

Extinguishing media which must not be used for safety reasons No information available.

Special hazards arising from the substance or mixture

Explosive properties

Advice for fire-fighters

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

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

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Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes Do not breathe dust Do not breathe vapors or spray mist

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed

Specific End Uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	No information available. No information available.
Exposure controls Engineering Measures Personal protective equipment	Ensure adequate ventilation, especially in confined areas
Eye Protection Hand Protection Skin and body protection Respiratory Protection	Goggles Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Hygiene Measures Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance pH Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Water Solubility Molecular Formula Molecular Weight Powder, Solid Brown No information available. No information available. No information available. No information available. Soluble CI5 H2 K2 O Ru 374.55

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10. STABILITY AND REACTIVITY

Reactivity Chemical Stability Stable under normal conditions

Possibility of Hazardous Reactions

Hazardous PolymerizationNo information available.Hazardous Reactions .No information available.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents, Strong acids, Powdered metals.

Hazardous Decomposition Products

Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity Product Information	No acute toxicity information is available for this product					
Component Information						
Chronic Toxicity Carcinogenicity	There are no known carcinogenic chemicals in this product					
Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs Endocrine Disruptor Information	No information available. No information available No information available. No information available. No information available. None known					

12. ECOLOGICAL INFORMATION

Toxicity Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

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SAFETY DATA SHEET

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	12. ECOLOGICAL INFORMATION			
Persistence and degradability				
No information available				
Bioaccumulative potential				
No information available.				
Mobility in soil No information available.				
No mormation available.				
Results of PBT and vPvB assessme	ent			
Other adverse effects				
No information available				
	13. DISPOSAL CONSIDERATIONS			
Waste treatment methods				
Waste from Residues / Unused	Dispose of in accordance with local regulations			
Products				
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal			
Containinated Fackaging				
	14. TRANSPORT INFORMATION			
IMDG/IMO	Not regulated			
ADR	Not regulated			
ΙΑΤΑ	Not regulated			

15. REGULATORY INFORMATION

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

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Dipotassium	238-374-4	-		-	-	-	-	-	-	-	KE-12136
aquapentachlororuthenate											Х

Legend

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

EINECS/ELINCS - European Inventory Lists

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

Potassium pentachloroaquaruthenium(III)

AICS - Inventory of Chemical Substances KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3 No information available.

 Revision Date
 27-Jan-2011

 Revision Summary
 Not applicable

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

 Disclaimer

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process, unless specified in the text End of Safety Data Sheet