SAFETY DATA SHEET



Revision Date 09-Feb-2011

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	
Product Description:	
Cat No.	
Synonyms	

Citric acid, trilithium salt tetrahydrate 199850000; 199850050; 199855000 Lithium citrate tetrahydrate

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.





Revision Date 09-Feb-2011

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
1,2,3-Propanetricarboxylic acid, 2- hydroxy-, trilithium salt, tetrahydrate 6080-58-6		98	6080-58-6	-	-	-

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 In the case of skin irritation or allergic reactions see a physician
Ingestion	Clean mouth with water Get medical attention
Inhalation	Remove from exposure, lie down Move to fresh air If symptoms persist, call a physician If breathing is difficult, give oxygen If not breathing, give artificial respiration
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media Water spray 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

Dust can form an explosive mixture in air

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





Revision Date 09-Feb-2011

6. ACCIDENTAL RELEASE MEASURES

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

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
Hygiana Magauraa	Handle in accordance with good industrial bugiene and sofety practice

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 odor pH Powder, Solid White odorless No information available.





Revision Date 09-Feb-2011

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Water Solubility Molecular Formula Molecular Weight No information available. 112°C / 233.6°F No information available. No information available. 745 G/L WATER (25°C) C6 H5 Li3 O7 . 4 H2 O 281.97

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 Bases, Strong oxidizing agents, Reducing agents.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity Product Information	No acute toxicity information is available for this product
Component Information	
<u>Chronic Toxicity</u> Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs	No information available. No information available No information available. No information available. No information available.

Revision Date 09-Feb-2011

Citric acid, trilithium salt tetrahydrate

11. TOXICOLOGICAL INFORMATION

Endocrine Disruptor Information

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

Persistence and degradability No information available

Bioaccumulative potential No information available.

<u>Mobility in so</u>il No information available.

Results of PBT and vPvB assessment Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods Waste from Residues / Unused Products	Dispose of in accordance with local regulations							
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal							
	14. TRANSPORT INFORMATION							
IMDG/IMO	Not regulated							
	Netrogulated							
ADR	Not regulated							
IATA	Not regulated							

15. REGULATORY INFORMATION







Revision Date 09-Feb-2011

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
1,2,3-Propanetricarboxylic acid, 2-	-	-		-	-	-	Х	-	-	Х	-
hydroxy-, trilithium salt,											
tetrahydrate											

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 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
 09-Feb-2011

 Revision Summary
 Not applicable

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

 Disclaimer

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End of Safety Data Sheet