

Revision date: 04-Sep-2013

Version: 2.0

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: RE-SORB® Oral Hydration, Electrolyte Product

Trade Name: Synonyms: Chemical Family: RESORB® RE-SORB® Oral Hydration, Electrolyte Product Not determined

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Intended Use: oral hydration

Details of the Supplier of the Safety Data Sheet

Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA) Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: VMIPSrecords@zoetis.com Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium

Emergency telephone number: International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

May cause irritation (based on components). Non-Hazardous Substance. Non-Dangerous Goods.

 Appearance:
 Off-white granular powder in a sealed packet

 Classification of the Substance or Mixture
 GHS - Classification

 Not classified as hazardous

EU Classification:

EU Indication of danger: Not classified

Label Elements

Hazard Statements:

Not classified in accordance with international standards for workplace safety.

Other Hazards Short Term: Australian Hazard Classification (NOHSC):

Note:

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU	EU Classification	GHS	%
		EINECS/ELINCS		Classification	
		List			
Citric acid, anhydrous	77-92-9	201-069-1	Not Listed	Not Listed	2.5
Sodium chloride	7647-14-5	231-598-3	Not Listed	Not Listed	44

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Potassium citrate	7778-49-6	231-905-0	Not Listed	Not Listed	*
Potassium phosphate	7778-77-0	231-913-4	Not Listed	Not Listed	*
Glycine	56-40-6	200-272-2	Not Listed	Not Listed	*

Additional Information:

* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

4. FIRST AID MEASURES

Description of First Aid Measures Eye Contact:	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.
Skin Contact:	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
Inhalation:	Remove to fresh air and keep patient at rest. Seek medical attention immediately.
Most Important Symptoms and Effe Symptoms and Effects of Exposure:	No data available
Medical Conditions Aggravated by Exposure:	None known
Indication of the Immediate Medica Notes to Physician:	I Attention and Special Treatment Needed None
	5. FIRE-FIGHTING MEASURES
Extinguishing Media:	Extinguish fires with CO2, extinguishing powder, foam, or water.
Special Hazards Arising from the S Hazardous Combustion Products:	ubstance or Mixture Formation of toxic gases is possible during heating or fire.
Fire / Explosion Hazards:	Fine particles (such as dust and mists) may fuel fires/explosions.

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Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting:	Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of dry solids. Clean spill area thoroughly.
Additional Consideration for Large Spills:	Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions:Store in a cool, dry, well-ventilated area. Store as directed by product packaging.Storage Temperature:15-30°C (59-86°F)ic end use(s):No data available

Specific end use(s):

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Glycine Latvia OEL - TWA	5 mg/m ³		
Sodium chloride Latvia OEL - TWA Lithuania OEL - TWA	5 mg/m³ 5 mg/m³		
Exposure Controls Engineering Controls: Personal Protective Equipment:	General room ventilation is adequate unless the process generates dust, mist or fumes. Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).		
Hands:	Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.		
Eyes:	Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is possible.		
Skin:	None required under normal and foreseeable conditions of use. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.		

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Off-white

Mixture

No data available.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection:

None required under normal conditions of use. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Odor: Molecular Formula:	Granular powder in a seal No data available. Mixture	ed packet	Color: Odor Threshold: Molecular Weight:
Solvent Solubility:	No data available		
Water Solubility:	No data available		
Solubility:	Soluble: Water		
pH:	approx. 4.3 (reconstituted	solution)	
Melting/Freezing Point (°C):	146		
Boiling Point (°C):	No data available.		
Partition Coefficient: (Method, pH, E No data available	Indpoint, Value)		
Decomposition Temperature (°C):	No data available.		
Evaporation Rate (Gram/s):	No data available		
Vapor Pressure (kPa):	No data available		
Vapor Density (g/ml):	No data available		
Relative Density:	No data available		
Viscosity:	No data available		
Flammablity:			
Autoignition Temperature (So	olid) (°C):	No data avai	ilable
Flammability (Solids):		No data ava	ilable
Flash Point (Liquid) (°C):		Expected to	be >55°C
Upper Explosive Limits (Liqui	id) (% by Vol.):	No data ava	

Lower Explosive Limits (Liquid) (% by Vol.): **Polymerization:**

No data available Will not occur

10. STABILITY AND REACTIVITY

Reactivity:

Chemical Stability: Possibility of Hazardous Reactions **Oxidizing Properties: Conditions to Avoid: Incompatible Materials:** Hazardous Decomposition **Products:**

No data available Stable under normal conditions of use.

None

Fine particles (such as dust and mists) may fuel fires/explosions. As a precautionary measure, keep away from strong oxidizers No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects **General Information:**

The following information is available for the individual ingredients.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity: (Species, Route, End Point, Dose)

Sodium chloride

Rat Oral LD50 3000 mg/kg Mouse Oral LD50 4000mg/kg

Citric acid, anhydrous Rat Oral LD50 3000 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

Sodium chloride

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

Citric acid, anhydrous

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Environmental Overview:	The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.
Toxicity:	No data available
Persistence and Degradability:	No data available
Bio-accumulative Potential:	No data available
Mobility in Soil:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:Dispose of waste in accordance with all applicable laws and regulations. Member State
specific and Community specific provisions must be considered. Considering the relevant
known environmental and human health hazards of the material, review and implement
appropriate technical and procedural waste water and waste disposal measures to prevent
occupational exposure and environmental release. It is recommended that waste minimization
be practiced. The best available technology should be utilized to prevent environmental
releases. This may include destructive techniques for waste and wastewater.

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14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications

WHMIS hazard class:

Non-controlled This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Citric acid, anhydrous	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	201-069-1
Potassium citrate	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	231-905-0
Potassium phosphate	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	231-913-4
Glycine	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	200-272-2

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15. REGULATORY INFORMATION

Sodium chloride

CERCLA/SARA 313 Emission reporting California Proposition 65 Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS/ELINCS List Not Listed Not Listed Present Present 231-598-3

 Data Sources:
 The data contained in this MSDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

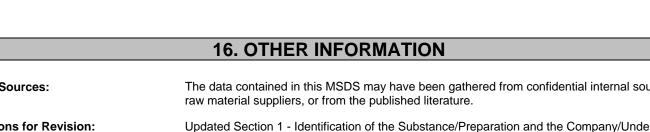
 Reasons for Revision:
 Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 7 - Handling and Storage.

 Prepared by:
 Toxicology and Hazard Communication Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet

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