

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Redoxpuffer-465_430mV

Print date: 28.11.2011

Product code: 791452

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

Redoxpuffer-465_430mV

Further trade names

506240;506241;791439

Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

For use in industrial installations or professional treatment only.

Details of the supplier of the safety data sheet

Company name:	ProMinent Dosiertechnik GmbH (PROMINENT)	
Street:	Im Schuhmachergewann 5-11	
Place:	DE-69123 Heidelberg	
Post-office box:	101760	
	DE-69007 Heidelberg	
Telephone:	0049/6221 842 (0)	Telefax: 0049/6221 842 (445)
Contact person:	Abteilung Technik/ Umwelt	Telephone: +49(0)6221 842-720
e-mail:	sicherheitsdatenblaetter@prominent.de	
Internet:	www.prominent.com	
Responsible Department:	Abteilung T/U (Technik/Umwelt) Gefahrstoffmanagement/Operational management of Hazardous Substances REACH Compliance	
<u>Emergency telephone:</u>	Giftnotruf Berlin +49 (0)30 - 19240	

SECTION 2: Hazards identification**Classification of the substance or mixture**

Indications of danger : Irritant
 R-phrases:
 Irritating to eyes.
 Irritating to respiratory system and skin.

GHS classification

Hazard Statements:
 Causes serious eye irritation.
 Causes skin irritation.

Label elements

Signal word:	Warning
Pictograms:	GHS07

**Hazard statements**

H319	Causes serious eye irritation.
H315	Causes skin irritation.

Precautionary statements

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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P302+P352
P280IF ON SKIN: Wash with plenty of soap and water.
Wear protective gloves/protective clothing/eye protection/face protection.**SECTION 3: Composition/information on ingredients****Mixtures****Chemical characterization**

(NH ₄) ₂ FE(SO ₄) ₂ x 6(H ₂ O)	CAS Nr. 7783-85-9	<5%
NH ₄ Fe(SO ₄) ₂ x 12(H ₂ O)	CAS Nr. 7783-83-7	<5%
H ₂ SO ₄	CAS Nr. 7664-93-9	<10%

In wässriger Lösung nach DIN 38484 Teil 6

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
231-639-5	sulphuric acid ... %	5 - 10 %
7664-93-9	C R35	
016-020-00-8	Skin Corr. 1A; H314	

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures**Description of first aid measures****After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water. Medical advice absolutely required!

SECTION 5: Firefighting measures**Extinguishing media****Special hazards arising from the substance or mixture**

The product itself is not combustible.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes. Avoid contact with skin.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods and material for containment and cleaning up

Spilled product must not leak into the ground. Treat the assimilated material according to the section on waste disposal. Suitable material for diluting or neutralizing: lime

SECTION 7: Handling and storage

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Precautions for safe handling**Conditions for safe storage, including any incompatibilities****SECTION 8: Exposure controls/personal protection****Control parameters****Exposure limits (EH40)**

CAS No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
7664-93-9	Sulphuric acid (mist)	-	1		TWA (8 h)	EU
		-	-		STEL (15 min)	EU

Exposure controls**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	yellow ivory
Odour:	odourless

Test method

pH-Value (at 20 °C): 0,5

Changes in the physical stateDensity (at 20 °C): 1,1 g/cm³**SECTION 10: Stability and reactivity****SECTION 11: Toxicological information****Information on toxicological effects****Specific effects in experiment on an animal**

(NH ₄) ₂ Fe(SO ₄) ₂ x 12H ₂ O	LD50:	3250 mg/kg Rat.
H ₂ SO ₄	LD50:	2140 mg/kg Rat.

SECTION 12: Ecological information**SECTION 13: Disposal considerations****Waste treatment methods****Waste disposal number of waste from residues/unused products**

060101 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; sulphuric acid and sulphurous acid
Classified as hazardous waste.

Waste disposal number of used product

060101 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; sulphuric acid and sulphurous acid
Classified as hazardous waste.

Waste disposal number of contaminated packaging

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060101 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; sulphuric acid and sulphurous acid
Classified as hazardous waste.

SECTION 14: Transport information**Land transport (ADR/RID)**

UN number: 2796
UN proper shipping name: SULPHURIC ACID with not more than 51 % acid
Transport hazard class(es): 8
Packing group: II
 Hazard label: 8



Classification code: C1
 Limited quantity: LQ22
 Hazard-no.: 80

Other applicable information (land transport)

:
 : 2

Marine transport

UN number: 2796
UN proper shipping name: Sulphuric Acid
Transport hazard class(es): 8, II
 EmS: F-A S-D

Air transport

UN/ID number: 2796
UN proper shipping name: Sulphuric Acid
Transport hazard class(es): XAO, PAX
 Hazard label: 8, II

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information**Full text of R-phrases referred to under sections 2 and 3**

35 Causes severe burns.
 36 Irritating to eyes.
 37/38 Irritating to respiratory system and skin.

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Full text of H-Statements referred to under sections 2 and 3

- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)