

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

**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**

Also applies to the following material numbers: 506240;506241;791439

**Chemical characterization ( Mixture )**

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

In wässriger Lösung nach DINS 38484 Teil 6

**Details of the supplier of the safety data sheet**

Company name:	ProMinent Dosiertechnik GmbH (PROMINENT)	
Street:	Im Schuhmachergewann 5-11	
Place:	DE-69123 Heidelberg	
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Internet:	www.prominent.com	
Responsible Department:	Abteilung T/U (Technik/Umwelt) Gefahrstoffmanagement/Operational management of Hazardous Substances REACH Compliance	

**Emergency telephone:** Giftnotruf Berlin +49 (0)30 - 19240**SECTION 2: Hazards identification****Route(s) of Entry****Signs and Symptoms of Exposure**

Carcinogenicity (NTP):

Carcinogenicity (IARC):

Carcinogenicity (OSHA):

**SECTION 3: Composition/information on ingredients****Mixtures****Hazardous components**

CAS No.	Components	Quantity
7664-93-9	sulphuric acid ... %	5 - 10 %

**SECTION 4: First aid measures****Description of first aid measures****General information**

The product is to be handled with the care and diligence usual for chemicals.

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**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

To suit environment.

**Unsuitable extinguishing media**

Not applicable.

**SECTION 6: Accidental release measures****SECTION 7: Handling and storage****Precautions for safe handling****Advice on safe handling**

The product is to be handled with the care and diligence usual for chemicals.

**Further information on handling**

Keep original container tightly closed.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Protect against direct sunlight and frost.

**SECTION 8: Exposure controls/personal protection****Control parameters****Exposure limits**

CAS No.	Components	ppm	mg/m <sup>3</sup>	fib/cc	Category	Origin
7664-93-9	Sulfuric acid	-	1		TWA (8 h)	PEL
		-	1		TWA (8 h)	REL

**Additional advice on limit values**

None known.

**Exposure controls****Occupational exposure controls**

None known.

**Protective and hygiene measures**

The product is to be handled with the care and diligence usual for chemicals.

**Hand protection**

Required.

**Eye protection**

Required.

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

Form:

Color:

pH-Value (at 20 °C):

**Test method**

0,5

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**Changes in the physical state**Density (at 20 °C): 1,1 g/cm<sup>3</sup>**SECTION 10: Stability and reactivity**

Stability:

Possibility of Hazardous Reactions:

**Conditions to avoid**

No decomposition if used according to specifications.

**Incompatible materials**

None known.

**Hazardous decomposition products**

None known.

**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

"Quantitative data on the toxicity of this product are not available. Hazardous properties

**Specific effects in experiment on an animal**(NH<sub>4</sub>)<sub>2</sub>Fe(SO<sub>4</sub>)<sub>2</sub> x 12H<sub>2</sub>O LD50: 3250 mg/kgH<sub>2</sub>SO<sub>4</sub> LD50: 2140 mg/kg**SECTION 12: Ecological information****Toxicity**

Given proper handling and use, no ecological problems are to be expected.

**Persistence and degradability**

None known.

**Bioaccumulative potential**

None known.

**Mobility in soil**

None known.

**Other adverse effects**

"When discharging the acid product into the sewage system, it is to be ensured that the Product lowers the pH value of water

**SECTION 13: Disposal considerations****Waste treatment methods****Advice on disposal**

"Small containers can be returned during the chemicals collection campaigns of the

**Contaminated packaging**

"Rinse the emptied containers with a lot of water ! Then, these can be disposed of at the

**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

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**Packing group:**

II

Hazard label:

8



Classification Code:

C1

Limited quantity:

LQ22

Hazard-no.:

80

**Other applicable information**

Special regulations:

Transport category: 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****U.S. Regulations****SECTION 16: Other information****Other data**

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.)*