

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

Oxycon DPD 1b

**Product no.**

A-85.510.200, ...225, A-85.590.200, ...300, ...400

**REACH registration number**

Not applicable

**Other means of identification**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Reagent for water analysis

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

SWAN Analytische Instrumente AG

Studbachstrasse 13

CH-8340 Hinwil

Phone: +41 44 943 63 00

Fax: +41 44 943 63 01

**Contact person**

Marco Lendi

**E-mail**

info@swan.ch

**SDS date**

05-11-2014

**SDS Version**

2.3

### 1.4. Emergency telephone number

Swiss Toxicological Information Centre

CH-8032 Zürich / Switzerland

Tel.: +41 44 251 51 51 (international, english)

Or use your national or local emergency number. See section 4 "First aid measures"

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Skin Irrit. 2, Eye Irrit. 2 // H319, H315

See full text of H/R-phrases in section 2.2.

**DPD/DSD Classification**

Irritant (Xi).

Irritating to eyes and skin (R36/38).

### 2.2. Label elements

**Hazard pictogram(s)**

According to EC-Regulation 1907/2006 (REACH)



**Signal word**

Warning!

**Hazard statement(s)**

Causes skin irritation. (H315)

Causes serious eye irritation. (H319)

<b>Safety statement(s)</b>	General	-
	Prevention	Wash exposed areas thoroughly after handling. (P264) Wear protective gloves/protective clothing/eye protection/face protection. (P280)
	Response	IF ON SKIN: Wash with plenty of soap and water. (P302+P352) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338) If eye irritation persists: Get medical advice/attention. (P337+P313)
	Storage	-
	Disposal	-

**Identity of the substances primarily responsible for the major health hazards**

-

**2.3. Other hazards**

**Additional labelling**

-

**Additional warnings**

-

**VOC**

-

**SECTION 3: Composition/information on ingredients**

**3.1/3.2. Substances**

NAME:	Sulphuric acid
IDENTIFICATION NOS.:	CAS-no: 7664-93-9 EC-no: 231-639-5 Index-no: 016-020-00-8
CONTENT:	1-5%
DSD CLASSIFICATION:	C;R35
CLP CLASSIFICATION:	Skin. Corr. 1A H314

(\*) See full text of H/R-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.

**Other informations**

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

**▼ Inhalation**

Get the injured person into fresh air. Make sure there is always someone with the injured person. Prevent shock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth

According to EC-Regulation 1907/2006 (REACH)

resuscitation. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

#### **Skin contact**

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

#### **Eye contact**

Remove contact lenses. Flush eyes with water (20-30°C) for at least 15 minutes. Call a doctor.

#### **Ingestion**

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

#### **Burns**

Rinse with water until the pain stops and continue for 30 minutes.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

If eye irritation persists: Get medical advice/attention.

#### **Information to medics**

Bring this safety data sheet.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

#### **5.2. Special hazards arising from the substance or mixture**

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Sulphur oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

No specific requirements.

#### **6.2. Environmental precautions**

No specific requirements.

#### **6.3. Methods and material for containment and cleaning up**

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

#### **6.4. Reference to other sections**

See section on "Disposal considerations " with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Smoking, consumption of food or liquid, and storage of tobacco, food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

According to EC-Regulation 1907/2006 (REACH)

### 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Storage temperature

NA

### 7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

Sulphuric acid (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,05 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

#### DNEL / PNEC

No data available.

### 8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

#### General recommendations

Observe general occupational hygiene.

#### Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

#### Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

#### Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

#### Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

No specific requirements.

### Individual protection measures, such as personal protective equipment



#### Generally

Only CE-marked personal protection equipment should be used. Use only CE marked protective equipment.

#### ▼ Respiratory Equipment

Recommended: NA, -, -

#### Skin protection

Special work clothing should be used.

#### ▼ Hand protection

Recommended: Natural rubber (latex) . . : NA

#### Eye protection

Use face shield. Use safety glasses with a side shield as an alternative.

## SECTION 9: Physical and chemical properties

According to EC-Regulation 1907/2006 (REACH)

### 9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm <sup>3</sup> )
Liquid	Colourless	None	1	-	1.03

#### Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	100	-

#### Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-	-	-
Explosion limits (Vol %)	Oxidizing properties	
-	-	

#### Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

### 9.2. Other information

Solubility in fat	Additional information
-	N/A

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section on "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special

### 10.4. Conditions to avoid

Do not expose to heat (e.g. sunlight), because it can lead to excess pressure.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance	Species	Test	Route of exposure	Result
Sulphuric acid	Rat	LC50	Inhalation	510 mg/m <sup>3</sup>
Sulphuric acid	Rat	LD50	Oral	2140 mg/kg

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Data on substance: Sulphuric acid

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### STOT-single exposure

No data available.

#### STOT-repeated exposure

No data available.

According to EC-Regulation 1907/2006 (REACH)

**Aspiration hazard**

No data available.

**Long term effects**

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance	Species	Test	Test duration	Result
Sulphuric acid	Daphnia	EC50	24 h	29 mg/l

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
No data available.			

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BFC
No data available.			

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

No data available

**12.6. Other adverse effects**

No special

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

The product is covered by the regulations on dangerous waste.

**Waste**

EWC code

-

**Specific labelling**

-

**Contaminated packing**

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

**SECTION 14: Transport information**

This product is covered by the conventions on dangerous goods.

**14.1 – 14.4**

▼ ADR/RID	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)			14.4. Packing group	Notes
	3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid solution)	8		III	-	
▼ IMDG	UN-no.	Proper Shipping Name	Class	PG*	EmS	MP**	Hazardous constituent
	3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid solution)	8	III	-	no	-
▼ IATA/ICAO	UN-no.	Proper Shipping Name	Class	PG*			
	3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid solution)	8	III			

According to EC-Regulation 1907/2006 (REACH)

solution)

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No data available

(\*) Packing group

(\*\*) Marine pollutant

**SECTION 15: Regulatory information**

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

**Restrictions for application**

-

**Demands for specific education**

-

**Additional information**

-

**Sources**

EC regulation 1907/2006 (REACH)

Directive 2000/532/EC

EC Regulation 1272/2008 (CLP)

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information'**

**Full text of H/R-phrases as mentioned in section 3**

R35 - Causes severe burns.

H314 - Causes severe skin burns and eye damage.

**The full text of identified uses as mentioned in section 1**

-

**Other symbols mentioned in section 2**

-

**Other**

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

**The safety data sheet is validated by**

Admin

**Date of last essential change**

**(First cipher in SDS version)**

05-11-2014

**Date of last minor change**

**(Last cipher in SDS version)**

05-11-2014