

MATERIAL SAFETY DATA SHEET

Rokanol DB5

Document drafted on: 2005-04-12
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1. Identification of the substance and of the company

Product name

Trade name: Rokanol DB5

Application

Rokanol DB5 is a non-ionic surfactant used in various cleaning and washing agents. Rokanol DB5 can be used in oxidizing, reducing and hard water environments. It is active in an acid and neutral bath, as well as in diluted alkalis. Rokanol DB5 can be used in a mixture with other non-ionic auxiliary agents and in mixtures with anionic and cationic surface active agents.

Producer

PCC Rokita SA, ul. Sienkiewicza 4, 56-120 Brzeg Dolny, Poland

Specialty Chemicals Business Unit

Telephone: (+4871) 319 24 32 or 319 26 97; Fax: (+4871) 319 28 02 or 319 25 50

Emergency telephone number:

Telephone: (+4871) 319 25 55, 319 24 41 or 319 26 90 (fax) at PCC Rokita SA or the closest local Fire Brigade

2. Composition / information on ingredients

Chemical name:	Polyoxyethylene ether of synthetic fatty alcohol	
Molecular formula:	RO(CH ₂ CH ₂ O) _n H, where: R = C ₁₂ C ₁₅ , n ~ 5	
Component names:	Polyoxyethylene ether of synthetic fatty alcohols (min. 99.5% m/m)	Water (max. 0.5% m/m)
Hazard symbol:	Xi; R36/38	
Index number:	-	
CAS number(s):	68131-39-5	
EC Number (EINECS):	Polymer	
Additional information:	INCI name: C12-C15 Pareth-5	

3. Hazards identification

Irritant (Xi). Irritating to eyes and skin (R 36/38).
Rokanol DB5 stored in appropriate polyethylene containers or drums as specified in sec. 7 poses no hazard.

4. First aid measures

Inhalation

Under normal conditions poses no hazard.

Skin contact

Take off all contaminated clothing. After contact with skin, wash immediately with soap and water. Launder clothing before reuse.

Eye contact

Irrigate copiously with fresh water for at least 15 minutes. Consult ophthalmologist.

Ingestion

Do not induce vomiting (risk of choking because of substance foaming). Make sure the respiratory system is free. Seek medical attention.

Additional information

Toxicological effect/exposure symptoms: skin contact of the liquid causes skin degreasing. Eye contact causes irritation.

Notes to physician: no special detoxifier or antidote. Apply symptomatic treatment. Persons who inhaled fumes (e.g. produced during a fire) must remain under medical supervision for at least 24-48 hours.

5. Fire fighting measures

Suitable extinguishing media

Extinguish with water spray, foam, carbon-dioxide or dry powder.

Extinguishing media which must not be used for safety reasons

Not known.

Special hazards

Cool down drums exposed to fire or high temperature with water spray and, if possible, remove from the hazardous area.

Special protective equipment for fire-fighters

Fire-fighters staying in the hazardous area must wear suitable protective clothing and protective equipment.

Additional information

Flammable product.

6. Accidental release measures

Personal precautions

Avoid contact with the substance.

Environmental precautions

Prevent penetration into drains or sewage systems, ground or surface water and soil.

Methods for cleaning / disposal

If possible, eliminate the spill (e.g. seal tight, place the damaged packaging in an emergency packaging). Contain the spreading of the spill by bunding. Soak up the spill with absorbent material (e.g. earth, sand), collect into a container and recycle or dispose of in compliance with the regulations in force (see sec. 13). Wash the contaminated area with water.

Additional information

Spill may cause surface to be slippery.

7. Handling and storage

Handling

Handle in compliance with general safety and industrial hygiene standards. Prevent access of unauthorised persons.

Storage

Store in a tightly closed container in a roofed area, at a temperature of up to 40 °C. Guaranteed period of stability: 12 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying the conformity of its parameters with the technical requirements. In case of non-conformity, application tests should be performed.

Specific applications

Not known.

8. Exposure controls/personal protection

Exposure control parameters

MAC (TWA) and MAC (STEL): not specified.

Personal protective equipment:

Respiratory protection

Not required in normal use.

Eye and face protection

Required – wear tightly fitting safety goggles if there is a risk of direct contact.

Hand protection

Required – rubber gloves.

Skin protection

Protective clothing.

Hygiene measures

Avoid clothing contamination. Wash hands and face after use. When using do not eat or drink.

9. Physical and chemical properties

Appearance:	clear or slightly turbid liquid
Colour:	straw
Odour:	weak, characteristic
pH:	4.6-7.4 (1% aqueous solution)
Temperature	
solidification:	approx. 10 ⁰ C
boiling:	no data available
flash-point:	approx. 170 ⁰ C
self-ignition:	no data available
Flammability:	flammable
Explosive properties	
upper and lower explosion limit:	not applicable
Oxidizing properties:	not applicable
Vapour pressure:	negligible at room temperature
Relative density:	0.957 g/ml at 20 ⁰ C
Solubility	
in water:	low, creates turbid solutions
in organic solvents:	low aliphatic alcohols
Partition coefficient: n-octanol/water:	no data available
Other properties:	hydroxyl value: 130-140 mg KOH/g

10. Stability and reactivity

Stability	Product stable under normal conditions
Conditions to avoid	During storage avoid temperatures outside the range specified in sec. 7
Materials to avoid	Product reacts with strong oxidizing agents
Hazardous decomposition products	Carbon oxide, organic partial decomposition products

11. Toxicological information

Acute oral toxicity	No evident toxicity has been observed LD ₅₀ of 7,620 mg/kg
Inhalation toxicity	No data available

Skin contact	Has a skin degreasing effect, skin contact of the undiluted substance and its concentrated aqueous solutions may cause inflammatory reaction
Eye contact	Contact of undiluted product with eyes causes conjunctivitis, eyelid swelling and cornea turbidity
Ingestion	No data available
Additional information	No mutagenic effect has been observed

12. Ecological information

Ecotoxicity	No data available
Mobility	Known or predicted distribution in various ecosystem compartments – hardly volatile product, slightly soluble in water, after dissolving in water may penetrate to groundwater
Persistence and degradability	
Persistence	Primary biodegradation above 80%, specified in compliance with 82/242/EEC
Degradability	Ultimate aerobic biodegradation specified by manometric respirometry as per Directive 67/548/EEC, Annex V.C.4-D equals 79.2%
Bioaccumulation potential	No data available
Other adverse effects	Rokanol DB5 may cause foaming in a wastewater treatment plant

13. Disposal Considerations

Product

Do not dispose of to drains or sewage system. Prevent penetration into ground or surface water. Do not landfill inert waste. Waste product should be recycled or neutralized in compliance with the regulations in force (Waste Act) in facilities or equipment that meet relevant requirements (authorized plants or producer).

Packaging

Empty packaging should be treated as hazardous waste. Packaging can be re-used if thoroughly washed several times with water or treated using an equivalent cleaning procedure. Best results are obtained by washing immediately after emptying the packaging. Recycling or neutralization of the packaging should comply with the regulations in force (Packaging and Packaging Waste Act).

14. Transport information

Road transport ADR/RID	Limitations resulting from ADR and RID regulations do not apply Covered means of transport recommended
Sea transport IMDG	Limitations resulting from IMDG regulations do not apply
Air transport ICAO-TI and IATA-DGR	No data available

15. Regulatory information

This Material Safety Data Sheet has been drafted in compliance with the Act on Chemical Substances and Preparations of 11 January 2001 (*Official Journal Dziennik Ustaw* 2001, No. 11, item 84), as amended.

Template for the Material Safety Data Sheet has been taken from the Regulation of the Minister of Health on Safety Data Sheets for Hazardous Substances and Preparations of 3 July 2002 (*Official Journal Dziennik Ustaw* 2002, No. 140, item 1171) as amended.

Additional regulations:

Packaging labelling – as per the Regulation of the Minister of Health on Hazardous Substance and Preparation Labelling of 2 September 2003 (*Official Journal Dziennik Ustaw* 2003, No. 173, item 1679), as amended.



Irritant (Xi)

R-phrases

R 36/38 Irritating to eyes and skin

S-phrases

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 28 After contact with skin, wash immediately with plenty of water

S 37/39 Wear suitable gloves and eye/face protection

16. Other information

List of R-phrases R 36/38 Irritating to eyes and skin

Training required Customers applying Rokanol DB5 should carefully read this Material Safety Data Sheet

Recommended application restrictions Not known

Further information can be obtained from Producer

Source of information Reference data

Modifications in the sheet Section 12 (degradability)

Additional information Information given herein refers solely to the technical product and ceases to be valid after its processing

MSDS version: 2

Information presented herein is given based on our most contemporary knowledge and it describes the product in terms of health care, environment protection and safe handling requirements. It shall not be understood as a guarantee of specific properties of the product.