

Date of issue: 10.01.2006 Replaces Data Sheet of : 07.03.2005

"***" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

1 Identification of Substance / Preparation and Company**1.1 Identification of Substance or Preparation**

Trade Name : Radora - Brillant Fensterglanz

Use : Windows cleanser

1.2 Company / Undertaking Identification**1.2.1 Address of the Company / Undertaking :**SÜDDEUTSCHE RADORA ERZEUGNISSE CHEM. FABRIK K. MESSMER, D - 78467 Konstanz, Kindlebildstr. 52
Telefon : 07531-77136, Telefax : 07531-73193**1.2.2 Responsible :**

CHEMCO, Dipl. - Chemikerin R. Fechner, ☎ +49-5254-9575-05

1.3 Emergency - TelephoneInformation Centre Specialising in Symptoms of Poisoning Telephone : ++49 - 30 - 19 240
Emergency - Telephone of Company / Undertaking Telephone : 07531-77136**2 Composition / Information on Ingredients****2.1 Chemical Characterisation:**

Aqueous emulsion with organic solvents

2.2 Dangerous Ingredients:

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R - phrases
14808-60-7		238-878-4	Quartz-mixture	5 - 15%		
64742-48-9	649-327-00-6	265-150-3	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	< 20 %	Xn	R 65-66

Remarks:

Classification and labelling of a product is indicated under item 15.

Exposure Controls / Personal Protection under item 8

R -phrase(s) under item 16

3 Hazards Identification**3.1 For Humans (additional information is given under item 11) :****3.1.1 Classification :**

The product is not classified and labelled in accordance with EC directives / German regulations on dangerous substances.

3.1.2 Additional advice :

May cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Frequent or permanent contact to skin may lead to irritation or dermatitis.

3.2 For the Environment :

Product may soil public waters by hydrocarbons. Slightly water contaminating.

3.3 For Materials:

Materials should be tested for resistance.

4 First Aid Measures**4.1 Inhalation:**

Ensure supply of fresh air.

In the event of symptoms occurring, seek medical treatment.

4.2 Skin Contact :

Wash with soap and water.

If irritation persists consult physician.

4.3 Eye Contact :

In case of contact with eyes rinse thoroughly with water.

In the event of symptoms occurring, seek medical treatment.

Tradename : Radora - Brillant Fensterglanz	
Company / Distributor : SÜDDEUTSCHE RADORA ERZEUGNISSE CHEM. FABRIK K. MESSMER, D - 78467 Konstanz, Kindlebildstr. 52 Telephone : 07531-77136, Date of issue: 10.01.2006 Replaces Data Sheet of : 07.03.2005	
4.4	Ingestion : Do not cause vomiting. Rinse mouth out and drink plenty of water. Summon a doctor immediately.
4.5	Note to Physician: Danger of aspiration when vomiting or irrigating stomach. Continue to monitor for pneumonia and pulmonary oedema.
4.6	Special Equipment: No.
5	Fire Fighting Measures
5.1	Suitable Extinguishing Media : Foam, dry chemicals, CO ₂ .
5.2	Extinguishing Media to Avoid : Water hose stream.
5.3	Fire and Explosion Hazards : In case of fire, product may form: Organic crackproducts and carbon oxides, inorganic dust und formaldehyde vapours.
5.4	Additional Information : Cool containers at risk with water spray jet.
5.5	Special Protective Equipment : Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.
6	Accidental Release Measures
6.1	Personal Precautions : See No. 8.3 Personal Protective Equipment. Provide sufficient ventilation.
6.2	Environmental Precautions and Methods for Cleaning up : Do not allow to enter drainage / surface-water / ground-water. Inform responsible authorities after accidental conduction of larger quantities. Prevent risk of slipping by covering with mineral dispersion material.
6.3	Further Information : None.
7	Handling and Storage (For national regulations refer to item 15.2)
7.1	Handling
7.1.1	Precautions for Safe Handling : Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin.
7.1.2	Precautions in Case of Fire and Explosion : Vapours may form an explosive mixture with air at higher temperatures. Keep away from sources of ignition, do not smoke.
7.2	Storage
7.2.1	Storage Instructions : Floor must be resistant against solvents. Store in cool and dry place. Keep container tightly closed
7.2.2	Store away from : Do not store together with oxidizing agents.
7.2.3	Further Information on Storage Conditions : WHG § 19g
7.2.4	Storage Class : 10 (VCI - Concept)
8	Exposure Controls and Personal Protection
8.1	Information on System Design : Provide personal protective equipment.
8.2	Exposure Limits:
8.2.1	CAS / Material
	14808-60-7 / Quartz-- mixture
	64742-48-9 / Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha
	Limit Value according to TRGS 900/ EEC Guidline 2000/39: 0,15 mg/m ³ , Alveolar dust fraction 1000 mg / m ³

Tradename : Radora - Brillant Fensterglanz	
Company / Distributor : SÜDDEUTSCHE RADORA ERZEUGNISSE CHEM. FABRIK K. MESSMER, D - 78467 Konstanz, Kindlebildstr. 52 Telephone : 07531-77136, Date of issue: 10.01.2006 Replaces Data Sheet of : 07.03.2005	
8.3	Personal Protective Equipment
8.3.1	General Protection and Hygiene : When using do not eat, drink or smoke. Preventive skin protection by skin protection ointment.
8.3.2	Respiratory Protection : Dustprotectionmask.
8.3.3	Hand Protection : In case of prolonged skin contact use protective gloves (EN 374, PVC,) Break through time : Refer to manufacturer/supplier for information.
8.3.4	Eye Protection : No.
8.3.5	Skin Protection : No.
8.3.6	Further Information : None.
9	Physical and Chemical Properties
9.1	Appearance
9.1.1	Form : viscous
9.1.2	Colour : rosa - beige
9.1.3	Odour : pleasant
9.2	Safety Relevant Data
9.2.1	pH-value, undiluted : 6,58, pH-value, 1% aqueous solution : n.av.
9.2.2	Boiling point / Boiling - range (°C) : 180-270 (benzine), Melting point / Melting range (°C) : < -20
9.2.3	Flash point (°C, c.c.) : 82
9.2.4	Flammability (EEC A10/A13) : n.av.
9.2.5	Ignition temperature (°C) : > 200
9.2.6	Autoflammability (EEC A16) : n.av.
9.2.7	Oxidising properties : None.
9.2.8	Explosion hazard : None.
9.2.9	Explosion limits (Vol.%) lower : 0,6 (benzine), upper : 7 (benzine)
9.2.10	Vapour pressure : 0,04 kPa bei 20 °C for benzine
9.2.11	Density (g/ml) : 1,018 bei 40 °C
9.2.12	Solubility (in Water) : Emulsifiable
9.2.13	Partition coefficient, n-Octanol/Water : n.av.
9.2.14	Viscosity : 1,68 -2,09 x 10 ⁻⁵ m ² /s
9.2.15	Solvent separation test : n.av.
9.2.16	Solvent content (m %) : < 20 %
9.2.17	Fat solubility : Yes
9.3	Further Data
9.3.1	Thermal decomposition (°C) : None.
9.3.2	Vapour density (Air = 1) : > 1 KPa (benzine)
9.3.3	Evaporation rate : n.av.
10	Stability and Reactivity
10.1	Conditions to Avoid : No special measures necessary if used correctly.
10.2	Materials to Avoid : Strong oxidizing agents.
10.3	Hazardous Decomposition Products : None.
10.4	Further Information : None.
11	Toxicological Information
11.1	Toxicological Tests :
11.1.1	Acute Health Effects :
	Inhalation, LC ₅₀ rat, (mg/l/4h) : n.av.
	Ingestion, LD ₅₀ rat, (mg/kg) : n.av.
	Skin - contact, LD ₅₀ rat, (mg/kg) : n.av.
	Irritation (to skin / eye) : Mildly irritating - not to be labelled.
	Sensitisation : None.

Tradename : Radora - Brillant Fensterglanz Company / Distributor : SÜDDEUTSCHE RADORA ERZEUGNISSE CHEM. FABRIK K. MESSMER, D - 78467 Konstanz, Kindlebildstr. 52 Telephone : 07531-77136, Date of issue: 10.01.2006 Replaces Data Sheet of : 07.03.2005		
11.1.2	Subacute / Chronic Toxicity :	
	Carcinogenicity :	n.av.
	Mutagenicity :	n.av.
	Teratogenicity :	n.av.
	Narcotic Effects :	None.
11.2	Practical Experience	
11.2.1	Observations relevant for classification :	None.
11.2.2	Further Observations :	Frequent or permanent contact to skin may lead to irritation or dermatitis.
11.3	General Remarks :	Classification of the preparation has been done by calculation in accordance with 1999/45/EEC.
12 Ecological Information		
12.1	Elimination (Persistence and Degradability) :	The product is readily biodegradable to OECD criteria. Biological degradability / validation: 79,3% after 23-24 days.
12.2	Behaviour in Sewage Works :	Mobility and Accumulation Potential : According to present knowledge no negative ecological reactions are to be expected.
12.3	Ecotoxic Effects, Aquatic Toxicity :	According to present knowledge no negative ecological reactions are to be expected.
12.4	Other Ecological Information	
12.4.1	COD-Value, mg/g :	584,5
12.4.2	BOD ₅ -Value, mg/g :	63,5
12.4.3	AOX-Remarks :	n.ap.
12.4.4	Significant Components :	Ecological data are not available.
13 Disposal Considerations (For national Regulations refer to item 15.)		
13.1	Residues	
13.1.1	Recommendation : D1/R1	Waste - Code - No. : 07 07 99 In addition comply with the regional authorities.
13.1.2	Safe Handling:	See item 7 and 15.
13.2	Contaminated Packaging	
13.2.1	Recommendation :	Wash with suitable cleaner. Otherwise as described under Residues.
13.2.2	Safe Handling :	As described under Residues.
14 Transport Information		
14.1	Transportation by Road or Railway according to ADR/GGVS and RID/GGVE	
	Remarks : No dangerous goods according to ADR	
	Class :	Classification :
	Instructions for Transportation in Tanks :	Hazard-No. : Packing Group :
		UN-No. :
14.1.1	Instruction Concerning Shipper's Declaration and Packaging :	
	Volume or Mass	Description of Goods
		Risklabel Packing - Code or marginal
14.1.2	Listed Cargo as per Appendix B.8 :	
14.1.3	Additional Designation in the Shipper's Declaration :	
	Inscription on Packaging :	
14.2	Classification for Transportation by Inland-Navigation according to ADNO/GGVBinSch	
	Remarks : Classification has not been done.	
	Class :	Division : Category :
14.2.1	Description of Goods :	
14.2.2	Remarks :	

<p>Tradename : Radora - Brillant Fensterglanz Company / Distributor : SÜDDEUTSCHE RADORA ERZEUGNISSE CHEM. FABRIK K. MESSMER, D - 78467 Konstanz, Kindlebidstr. 52 Telephone : 07531-77136, Date of issue: 10.01.2006 Replaces Data Sheet of : 07.03.2005</p>	
14.3	<p>Classification for Transportation by Vessels according to IMDG/GGVSee Remarks : No dangerous goods according to IMDG Class : UN-No. : Packing Group : 14.3.1 EmS-Fire / Leak : MFAG-Table : 14.3.2 Marine Pollutant : 14.3.3 Instruction for Declaration and Labelling : (Packing sizes with possible exemptions not considered) Proper Shipping Name : Risk Label : 14.3.4 Remarks :</p>
14.4	<p>Classification for Transportation by Aeroplane according to IATA-DGR/CAO-TI Remarks : No dangerous goods according to IATA-DGR Class : UN-No. : Packing Group : 14.4.1 Instruction for Declaration and Labelling : (Packing sizes with possible exemptions not considered) Proper Shipping Name : Risk Label : Packing Instructions, Passenger : Cargo : 14.4.2 Remarks :</p>
<p>15 Regulatory Information</p>	
15.1	<p>Classification according to EEC-Regulations : Classification required by EEC : No. Hazard Identification : Hazard Symbol(s) : Component(s) : R-Phrases : S-Phrases : S 2: Keep out of reach of children. Additional Markings : None.</p> <p>15.1.1 The above mentioned classification is valid for distribution to : Professional use / public use. Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.</p>
<p>16 Other Information</p>	
<p>R-phrase(s) : The product does not need to be labelled in accordance with EC directives or respective national laws. Further information to work out the Data sheet: Data of the producer. The statements in this Material Safety Data Sheet were made to the best of our knowledge (2004/73/EC) and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products. Prepared by : CHEMCO, Dipl. - Chemikerin R. Fechner, ☎ +49-5254-9575-05 rad001</p>	