

# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



## RADORA-BRILLANT WINDOW SHINE

Material number R002

Version: 8.0  
Replaces version: 7.0

Revision date: 2/14/2025  
Date of print: 2/17/2025

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Language: en-US

## 1. Product and company identification

### Product identifier

Trade name: RADORA-BRILLANT WINDOW SHINE

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

General use: Windows cleanser

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

Company name: Süddeutsche RADORA Erzeugnisse  
Chemische Fabrik · Klaus Messmer  
Street/POB-No.: Kindlebildstraße 52  
Postal Code, city: 78467 Konstanz  
Germany  
WWW: www.radora.de  
E-mail: info@radora.de  
Telephone: +49 (0)7531-7 71 36  
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Department responsible for information:  
Herr Klaus Messmer  
Email: info@radora.de  
Telephone: + 49 (0)7531-7 71 36

### Emergency phone number

Herr Klaus Messmer Telephone: + 49 (0)7531-7 71 36

## 2. Hazards identification

### Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Form: viscous

Color: pink - beige

Odor: pleasant odor

Classification: Flammable Liquid - Category 4.

Signal word: **Warning**

Hazard statements: Combustible liquid.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container to hazardous or special waste collection point.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

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### Hazards not otherwise classified

May cause allergic reactions in already sensitized persons.  
Repeated exposure may cause skin dryness or cracking.  
Frequent or prolonged skin contact may cause irritation and inflammation.  
Special danger of slipping by leaking/spilling product.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterization: Aqueous emulsion

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 64742-48-9	Naphtha (petroleum), hydrotreated heavy	< 20 %	Flammable Liquid - Category 4. Aspiration Toxicity - Category 1.

Additional information: Contains 15-30% aliphatic hydrocarbons; <5% cationic surfactants, non-ionic surfactants. Contains preservatives (benzylhemiformal/formaldehyde); perfumes (D-Limonene).  
Contains Crypto-crystalline silica.  
Crypto-crystalline silica (respirable dust) is embedded in the product and not available as respirable dusts.  
The cryptocrystalline portion of silicic acid may cause generate fine dust during the application after evaporation of the water-solvent mixture. Danger of silicosis by prolonged exposure through inhalation.

## 4. First aid measures

General information: Take off contaminated clothing and wash it before reuse.  
In case of inhalation: Provide fresh air. If the casualty has difficulty breathing, call a doctor immediately.  
Following skin contact: After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician.  
After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.  
After swallowing: Rinse mouth. Do not induce vomiting.  
Risk of foam aspiration when vomiting. Risk of suffocation!  
Immediately get medical attention.

### Most important symptoms/effects, acute and delayed

May cause allergic reactions in already sensitized persons.  
Repeated exposure may cause skin dryness or cracking.  
Frequent or prolonged skin contact may cause irritation and inflammation.

### Information to physician

Treat symptomatically.

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### 5. Fire fighting measures

Flash point/flash point range:

179.6 °F

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water spray jet, foam, dry chemical powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

#### Specific hazards arising from the chemical

In case of fire may be liberated: carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Use fine water spray to cool endangered containers.

### 6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Keep unprotected people away.

Do not breathe dust/fume/gas/mist/vapors/spray.

Avoid contact with the substance. Wear appropriate protective equipment.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

If necessary notify appropriate authorities.

Methods for clean-up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

### 7. Handling and storage

#### Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed.

Avoid contact with skin and eyes.

Do not breathe dust/fume/gas/mist/vapors/spray.

Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

#### Storage

Requirements for storerooms and containers:

Keep out of the reach of children.

Provide for a solvent-resistant and seal-tight floor.

Keep container tightly closed and dry.

Keep in a cool, well-ventilated place.

Hints on joint storage:

Do not store together with: strong oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

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## 8. Exposure controls / personal protection

### Engineering controls

Provide adequate ventilation, and local exhaust as needed.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Long-term:

Glove material: PVC-Layer thickness: 0.7 mm

Breakthrough time: > 480 min.

Short-term:

Glove material: PVC-Layer thickness: 0.4 mm

Breakthrough time: > 30 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: When vapors form, use respiratory protection.

Use filter type A according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

In case of dust formation: Half mask with particle filter FFP2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

When using do not eat, drink or smoke.

Avoid contact with skin and eyes.

Wash hands before breaks and after work.

Eye wash facility must be provided.

Take off contaminated clothing and wash it before reuse.

Do not breathe dust/fume/gas/mist/vapors/spray.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Physical state at 68 °F and 101.3 kPa: liquid  
Form: viscous  
Color: pink - beige

Odor: pleasant odor

Odor threshold: No data available

pH: 6.58

Melting point/freezing point: ≤ -4 °F

Initial boiling point and boiling range: 356 - 518 °F (Naphtha (petroleum), hydrotreated heavy)

Flash point/flash point range: 179.6 °F

Evaporation rate: No data available

Flammability: > 392 °F

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Explosion limits: LEL (Lower Explosion Limit):  
0.60 Vol-% (Naphtha (petroleum), hydrotreated heavy)  
UEL (Upper Explosive Limit):  
7.00 Vol-% (Naphtha (petroleum), hydrotreated heavy)

Vapor pressure: at 68 °F: Naphtha (petroleum), hydrotreated heavy: 0.4 hPa

Vapor density: No data available

Density: at 104 °F: 1.018 g/mL

Water solubility: emulsifiable

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Thermal decomposition: No data available

Viscosity, kinematic: at 104 °F: > 25 mm<sup>2</sup>/s

Solvent content: 15 - 16 %

Additional information: Relative vapor density (air=1): >1 (Naphtha (petroleum), hydrotreated heavy)

## 10. Stability and reactivity

Reactivity: Refer to subsection "Possibility of hazardous reactions".

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reactions with proper and specified storage and handling

Conditions to avoid: Protect from excessive heat.

Incompatible materials: Strong oxidizing agents

Thermal decomposition: No data available

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## 11. Toxicological information

### Toxicological tests

Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data. Mild irritant
- Serious eye damage/irritation: Lack of data. Mild irritant
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Lack of data.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Lack of data.

### Symptoms

May cause allergic reactions in already sensitized persons.  
Repeated exposure may cause skin dryness or cracking.  
Frequent or prolonged skin contact may cause irritation and inflammation.  
In case of ingestion: Danger of foam aspiration. Risk of suffocation!

## 12. Ecological information

### Ecotoxicity

Further details: No data available

### Mobility in soil

No data available

### Persistence and degradability

Further details: Biodegradability: 79.3 %/24 d.  
Product is readily biodegradable.

Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### Additional ecological information

Oxygen demand: BSB5: 63,5 mg/g  
CSB: 584,5 mg/g

Volatile organic compounds (VOC):  
15.5 % by weight = 155 g/L

General information: Do not allow to enter into ground-water, surface water or drains.

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### 13. Disposal considerations

#### Product

- Recommendation: Dispose of waste according to applicable legislation.
- Recommendation: Remove residual product with water and detergent.  
Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.  
Non-contaminated packages may be recycled.

### 14. Transport information

#### UN number

ADR/RID, IMDG, IATA-DGR:  
not applicable

#### UN proper shipping name

ADR/RID, IMDG, IATA-DGR:  
Not restricted

#### Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:  
not applicable

#### Packing group

ADR/RID, IMDG, IATA-DGR:  
not applicable

#### Environmental hazards

Marine pollutant: no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

#### USA: Department of Transportation (DOT)

Identification number: NA1993  
Proper shipping name: NA 1993, Combustible liquids, n.o.s.  
(Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics)  
Hazard class or Division: Comb liq  
Packing Group: III  
Labels: None  
Symbols: D G  
Special Provisions: 148, IB3, T1, TP1  
Packaging – Exceptions: 150  
Packaging – Non-bulk: 203  
Packaging – Bulk: 241  
Quantity limitations – Passenger aircraft / rail: 60 L  
Quantity limitations – Cargo only: 220 L  
Vessel stowage – Location: A

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### Sea transport (IMDG)

Proper shipping name: Not restricted  
Marine pollutant: no

### Air transport (IATA)

Proper shipping name: Not restricted

## 15. Regulatory information

### National regulations - U.S. Federal Regulations

Naphtha (petroleum), hydrotreated heavy: TSCA Inventory: listed; UVCB

### National regulations - U.S. State Regulations

No data available

## 16. Other information

Text for labeling:

Contains < 20 % Naphtha (petroleum), hydrotreated heavy.  
Contains: 15-30% aliphatic hydrocarbons; <5% cationic surfactants, non-ionic surfactants; benzylhemiformal/formaldehyde; perfumes (D-Limonene).

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)  
Fire: 1 (Slight)  
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)  
Flammability: 1 (Slight)  
Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

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### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
AS/NZS: Australian Standards/New Zealand Standards  
Aspiration Toxicity: Aspiration toxicity  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EN: European Standard  
EQ: Excepted quantities  
Flammable Liquid: Flammable liquid  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
PVC: Polyvinyl chloride  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative

Reason of change: **General revision**  
Date of first version: **10/23/2013**

### Department issuing data sheet

Contact person: **see section 1: Department responsible for information**

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

