

# Safety Data Sheet

according to HPR, Schedule 1

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Revision: 01/13/2026

Version number 1

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## 1 Identification

· **Product identifier:**

· **Trade name:** Black & White descaler

· **Other means of identification**

· **Article number:** 141.811-146.965

· **Application of the substance / the preparation:** Cleaning material/ Detergent

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

· **Manufacturer/Supplier:**

Schulz & Sohn GmbH  
Chemie-Erzeugnisse  
Hoeheweg 327  
D-40231 Duesseldorf  
sida@schulzchemie.com

Distributet by:

Thermoplan AG  
Thermoplan-Platz 1  
CH-6353 Weggis  
Tel.: +41 41 3921200  
thermoplan@thermoplan.ch

· **Information department:** Product safety department

· **Emergency telephone number:**

POISON CONTROL  
National Capital Poison Center  
Tel.: 1-800-222-1222

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## 2 Hazard identification

· **Classification of the substance or mixture:**

Skin Irritation - Category 2                      H315 Causes skin irritation.

Eye damage/irritation – Category 1    H318 Causes serious eye damage.

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· **Label elements:**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS05

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Lactic acid

· **Hazard statements:**

Causes skin irritation.

Causes serious eye damage.

· **Precautionary statements:**

Wear protective gloves / eye protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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- **Information pertaining to particular dangers for man and environment:**
- **Classification system:**
- **NFPA ratings (scale 0 - 4):**



Health = 3  
Fire = 0  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4):**



Health = 3  
Fire = 0  
Reactivity = 0

## 3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

50-21-5	Lactic acid	7-13% w/w
⚠ Eye damage/irritation – Category 1, H318; ⚠ Skin Irritation - Category 2, H315		

Actual concentration ranges are withheld as a trade secret.

## 4 First-aid measures

- **Description of first aid measures:**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
- **Most important symptoms and effects, both acute and delayed:**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media:**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters:**
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Not required
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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## 7 Handling and storage

- **Precautions for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
  - **Information about protection against explosions and fires:** No special measures required.
  - **Conditions for safe storage, including any incompatibilities:**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Storage between 5 and 40°C.
  - **Information about storage in one common storage facility:** Not required
  - **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.  
Store in dry conditions.  
Protect from humidity and water.
  - **Storage class:** 12
  - **Specific end use(s):** No further relevant information available.
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## 8 Exposure controls/ Personal protection

- **Control parameters:**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls:**
- **Additional information about design of technical systems:** No further data; see section 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves!

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**  
Recommendation:  
uvex u-chem 3000 (DIN EN 374)  
Material: Nitrile rubber, NBR  
Thickness of the material: 0,5 mm  
Value for the permeation: > 480 min (Level 6)  
Recommendation:  
uvex u-fit strong N2000 (DIN EN 374)  
Material: Nitrile rubber, NBR  
Thickness of the material: 0,2 mm

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Value for the permeation: > 480 min (Level 6)

· **Penetration time of glove material:**

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye protection:**



Tightly sealed goggles!

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties:**

· **General Information:**

· <b>Physical state</b>	Liquid
· <b>Color:</b>	Red
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined
· <b>Melting point/Melting range:</b>	Undetermined
· <b>Boiling point/Boiling range:</b>	Undetermined
· <b>Flammability:</b>	Not applicable
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined
· <b>Upper:</b>	Not determined
· <b>Flash point:</b>	Not applicable
· <b>Decomposition temperature:</b>	Not determined
· <b>pH-value at 20 °C:</b>	3.13
· <b>Viscosity:</b>	
· <b>Kinematic:</b>	Not determined
· <b>Dynamic:</b>	Not determined
· <b>Solubility in / Miscibility with:</b>	
· <b>Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined
· <b>Vapor pressure:</b>	Not determined
· <b>Vapor pressure:</b>	
· <b>Density at 20 °C:</b>	1.031 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined
· <b>Vapour density:</b>	Not determined
· <b>Particle characteristics</b>	Not applicable

· **Other information:**

· **Appearance:**

· **Form:** Fluid

· **Important information on protection of health and environment, and on safety.**

· **Ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Solvent content:**

· **Organic solvents:** 0.0 %

· **Water:** 86.1 %

· **Solids content:** 0.2 %

· **Change in condition:**

· **Evaporation rate:** Not determined

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## 10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity:**
- **Primary irritant effect:**
  - **on the skin:** Irritating to skin
  - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories:**

· <b>IARC (International Agency for Research on Cancer):</b>
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None of the ingredients is listed.
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· <b>NTP (National Toxicology Program):</b>
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None of the ingredients is listed.
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## 12 Ecological information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Results of PBT and vPvB assessment:**
  - **PBT:** Not applicable
  - **vPvB:** Not applicable
- **Other adverse effects:**
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Waste treatment methods:**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· <b>UN-Number</b> · DOT/TDG, ADR, IMDG, IATA	Void
· <b>UN proper shipping name</b> · DOT/TDG, ADR, IMDG, IATA	Void
· <b>Transport hazard class(es)</b> · DOT/TDG, ADR, ADN, IMDG, IATA · <b>Class</b>	Void
· <b>Packing group</b> · DOT/TDG, ADR, IMDG, IATA	Void
· <b>Environmental hazards:</b>	Not applicable
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable
· <b>Special precautions for user</b>	Not applicable
· <b>UN "Model Regulation":</b>	Void

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
No further relevant information available.
- **Sara:**

· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredients is listed.

· <b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.

· <b>TSCA (Toxic Substances Control Act):</b>		
7732-18-5	water	ACTIVE
50-21-5	Lactic acid	ACTIVE
75-75-2	methanesulphonic acid	ACTIVE
34590-94-8	Dipropylene glycol monomethyl ether	ACTIVE
109-46-6	1,3-dibutyl-2-thiourea	ACTIVE
547-58-0	sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	ACTIVE

- **Canadian substance listings:**

· <b>Canadian Domestic Substances List (DSL):</b>	
7732-18-5	water
50-21-5	Lactic acid
75-75-2	methanesulphonic acid
34590-94-8	Dipropylene glycol monomethyl ether
61827-42-7	Polyoxyethyleneisodecylether
109-46-6	1,3-dibutyl-2-thiourea
547-58-0	sodium 4-(4-dimethylaminophenylazo)benzenesulphonate

· <b>Canadian Non-Domestic Substances List (NDSL)</b>
None of the ingredients is listed.

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· **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%):**

50-21-5 | Lactic acid

· **Per- and polyfluoroalkyl substances (PFAS)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases:**

H315 Causes skin irritation.

H318 Causes serious eye damage.

· **Department issuing SDS:** HSE department

· **Contact:** HSE Department

· **Date of preparation** 01/13/2026

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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