prosolve

industroclean®

SAFETY DATA SHEET

According to ISO 11014

Original prep date: 05-11-2007

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Section 1: Chemical product and company information

Trade name:	**Prosolve**
Product details:	**Heavy duty cleaner**
Recommended uses:	For the removal of heavy duty soiling on surfaces.
Manufacturer:	Industroclean (Pty) Ltd Unit 302, Malibongwe Industrial Park Cnr R114 & Malibongwe Drive Nooitgedacht 1739
Emergency telephone number:	+27 11 801 4600

Section 2: Hazards identification

ATE_{mix} classification	Category 5
Skin corrosion	Category 1B: H314
Serious eye damage	Category 1: H318

Signal word: Danger

Hazard symbols:

Hazard statements:

H303 – May be harmful if swallowed.

H333 – May be harmful if inhaled.

H314 – Causes severe skin burns and eye damage.

H318 – Causes serious eye damage.

Precautionary statements:

P260 – Do not breathe dust/fume/gas/mist/vapours/spray.

P264+P265 – Wash hands thoroughly after handling and do not touch eyes.

P265 – Do not touch eyes.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Section 3: Composition / Information on hazardous ingredients

Description: Mixture

Hazardous components ≥ cut-off level:

CAS No	Chemical name	% Conc
111-76-2	2-Butoxyethanol	<5%
141-43-5	Ethanolamine	<3%

Section 4: First aid measures

P304 IF INHALED: Remove to fresh air. P317 Get medical help.

P302 IF ON SKIN: P354 Immediately rinse with water for several minutes. P361 Take off immediately all contaminated clothing. P363 Wash contaminated clothing before reuse.

P305 IF IN EYES: P354 Immediately rinse with water for several minutes. Immediately transport the patient to the eye doctor / hospital. Continue rinsing during transport with isotonic saline solution or water. P338 Remove contact lenses, if present and easy to do. Continue rising.

P301 IF SWALLOWED: P330 Rinse mouth. P331 Do not induce vomiting. During spontaneous vomiting hold the patients head low with the body in a prone position to avoid aspiration. P316 Get medical help immediately.

Section 5: Fire-fighting measures

Suitable extinguishing agents: Water spray jet, extinguishing powder, CO_2, foam.

Unsuitable extinguishing agents: None.

Specific hazards: Not determined.

Special protective equipment: Wear self-contained breathing apparatus and special tightly sealed suit.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Particular danger of slipping on leaked/spilled product. Wear protective clothing (See section 8). Keep unprotected persons away. When

selecting the protective suit, attention has to be paid to the complete and safe protection of skin and mucous membranes. Impermeable protective clothes, protective boots must be made of neoprene, complete face protection and nitrile-rubber gloves with long tops should be worn.

Environmental precautions: P390 Absorb spillage to prevent material-damage. As the undiluted product is hazardous for the aquatic environment, it must be prevented from reaching surface water. Prevent from spreading (e.g. by enclosing with a ring of chemical absorbent). Inform authorities in case of contamination of water or sewage system.

Methods and material for containment and cleaning up: Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically.

Section 7: Handling and storage

Precautions for safe handling: Provide good room ventilation or local exhaust ventilation at the workplace. Product to be diluted with cold water to prevent bacterial growth.

Requirements to be met by storerooms and containers: P405 Store locked up. Ensure sufficient ventilation. Store only in the original container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Fill only into labelled containers and do not leave the container open.

Section 8: Exposure controls and personal protection

Occupational exposure limit values:

CAS No	Chemical name	% Conc	RHCA-OEL
111-76-2	2-Butoxyethanol	<4%	40 ppm
CAS No	**Chemical name**	**% Conc**	**OEL 8-hour TWA**
141-43-5	Ethanolamine	<3%	6 ppm
CAS No	**Chemical name**	**% Conc**	**OEL-STEL/C**
141-43-5	Ethanolamine	<3%	12 ppm

Engineering controls: Not applicable

Personal Protective Equipment:

Use safety goggles.

Wear safety gloves.

Section 9: Physical and chemical properties

Description	Result
Appearance	Liquid
Colour	Colourless

Odour	Characteristic
Melting / Freezing range	Not determined
Boiling point / Boiling range	62.5°C
Flash point	62.5°C
Self-inflammability	Not applicable
Danger of explosion	Not applicable
Density at 20°C	1.050 g/cm^3
Miscibility with water	Completely miscible
pH value concentrate at 20°C	13.0 ± 0.5
Volatile organic compound (Conc %)	12.5%
Fluoro-compounds (Conc %)	0%

Section 10: Stability and reactivity

Chemical stability: No decomposition up to the boiling point. Under recommended storage conditions, this product is stable for up to 3 years.

Reactions: No dangerous reactions known.

Incompatible materials: None

Section 11: Toxicological information

Acute oral toxicity estimate: >2000 ≤ 5000

Germ cell mutagenicity: Classification criteria are not met.

Carcinogenicity: Classification criteria are not met.

Reproductive toxicity: Classification criteria are not met.

Section 12: Ecological information

Persistence and degradability: No data

Bioaccumulative potential: No data

Mobility in soil: No data

Environmental exposure of the product will vary depending on solution strength, application method and rate. The degree of dilution and dispersion and meteorological conditions as well as subsequent biodegrading of surfactants will affect exposure concentration and duration.

Quantitative activity relationships for aquatic toxicity and log K_{ow} for predicting readily biodegradation are not yet sufficiently accurate to predict rapid degradation.

Section 13: Disposal considerations

P501 Taking into consideration the hazardous components and the dilution of this product at the strongest recommended dosage, this product can be safely disposed according to the local municipal, provincial or national regulations. Dispose of packaging in an approved receptacle or incinerator.

Section 14: Transport information

UN number: UN 1760

UN proper shipping name: CORROSIVE LIQUID, N.O.S.

Transport hazard class(es): Class 8 — Corrosive substances

Packing group: II

Environmental hazards: Marine pollutant (IMDG): Yes. Environmentally hazardous substance (UN 3077 / UN 3082): Not applicable — the corrosive hazard determines the classification.

Special precautions for user: Transport only in closed, UN-approved packagings that are correctly marked and labelled (SANS 10229-1). Secure packages upright against movement and protect from mechanical damage. Do not load with foodstuffs, feedstuffs or pharmaceuticals. Where the consignment exceeds the exempt quantity the vehicle shall carry the transport emergency card and emergency response information required by SANS 10232-1/-3/-4 and the equipment required by SANS 10231, and the driver shall hold a valid professional driving permit endorsed for dangerous goods.

Transport in bulk according to IMO instruments: Not applicable. The product is not carried in bulk under Annex II of MARPOL or the IBC Code.

Road transport – South Africa: National Road Traffic Act 93 of 1996, Chapter VIII of the National Road Traffic Regulations (Transportation of Dangerous Goods, Regs 273–283B), read with:

- **SANS 10228 (identification and classification of dangerous goods):** UN 1760, Class 8, Packing Group II.
- **ADR (as adopted in South Africa):** classification code C9; hazard identification (Kemler) number 80; tunnel restriction code (E); transport category 3 – full operational requirements apply above 1 000 ℓ total dangerous goods per transport unit (ADR 1.1.3.6 / SANS 10231); limited quantities (ADR Chapter 3.4): 5 ℓ per inner packaging.
- **Packaging:** UN-certified packagings per SANS 10229-1; intermediate bulk containers (IBCs) per SANS 10233.

- **Placarding / emergency information system:** SANS 10232-1; emergency action code (SANS 10232-3): 2X.
- **Transport emergency card (Tremcard):** per SANS 10232-4 – must be carried in the vehicle cab and be accessible to the driver.
- **Operational requirements (SANS 10231):** dangerous goods declaration by the consignor; driver to hold a valid professional driving permit with dangerous goods endorsement (PrDP category D); prescribed vehicle equipment, placarding, incident procedures and route/parking requirements.

Sea transport – IMDG Code (Merchant Shipping Act 57 of 1951, administered by SAMSA):

- UN 1760, Class 8, Packing Group II; EmS: F-A, S-B; marine pollutant: Yes. Stowage and segregation per the IMDG Code for Class 8.

Air transport – ICAO Technical Instructions / IATA Dangerous Goods Regulations (Civil Aviation Regulations, Part 92):

- UN 1760, Class 8, Packing Group II; packing instructions and quantity limits per the current IATA DGR.

Other

- WCO HS code / tariff code: 3402.90
- Emergency response guide (ERG): Guide 154.

Section 15: Regulatory information

- Occupational Health and Safety Act 85 of 1993
- Regulations for Hazardous Chemical Agents, 2021
- Identification and Classification of Dangerous Goods for Transport
- Relevant SABS South African National Standards and Specific Permit Conditions
- Waste Classification and Management Regulations
- Metropolitan Municipal Services and Waste Management By-Laws
- Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
- Safety Data Sheets for Chemical Products, SANS11014
- Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung: GESTIS Substance Database
- European Chemicals Agency: Echa Chem
- Department of Employment & Labour (Competent Authority for SDS's in SA)

Section 16: Other information

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks pertaining to the use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use of suitability

of the product. Appropriate warning and safe handling procedures should be provided to handlers and users.

Data sheet prepared by: Valiant Compliance Solutions (Pty) Ltd