

SUDPRO 50

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 11/30/2020

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Version: 1.0



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
Trade name	: SUDPRO 50
Product code	: SUDPRO 50
Synonyms	: A blend of antiscalants and polymers
Product group	: Trade product
REACH authorisation exemptions	: Exempted from REACH registration

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	: Industrial use
Use of the substance/mixture	: Water Treatment

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ImproChem(Pty) Ltd T/A AECI Water
1 Wharhirst Road
Umbogintwini - South Africa
T +27(31) 949 8200

1.4. Emergency telephone number

Emergency number	: 0800 SPILLS or 0800 774557
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, H314
Category 1, Sub-Category
1A

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes eye irritation. Causes skin and eye irritation. May cause gastrointestinal irritation. May cause respiratory irritation. Causes severe skin burns and eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

Signal word (CLP)	: Danger
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	: P280 - Wear goggles, gloves, clothing and respiratory protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label).

2.3. Other hazards

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SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Polymer
Name : SUDPRO 50

Name	Product identifier	%
WATER	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	60 – 80
POLYACRYLIC ACID MM 2000	(CAS-No.) 9003-01-4	10 – 30

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Treat symptomatically. If you feel unwell, seek medical advice.
First-aid measures after inhalation : Remove the victim into fresh air. Treat symptomatically. Seek immediate medical advice.
First-aid measures after skin contact : Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Treat symptomatically. Seek immediate medical advice.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage. Irritation of the respiratory tract. Gastrointestinal complaints.
Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Causes eye irritation.
Symptoms/effects after ingestion : Gastrointestinal complaints.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area.
Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Evacuate area.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Prevent runoff from entering water courses, sewers and basements.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Absorb spillage to prevent material damage. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Eliminate every possible source of ignition. Evacuate area.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

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6.1.2. For emergency responders

- | | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. |

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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|-------------------------|--|
| For containment | : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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| Additional hazards when processed | : Material is slippery when spilled. |
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

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|---------------------------|--|
| Technical measures | : Facilities: shower, eye shower. Ensure adequate ventilation, especially in confined areas. |
| Storage conditions | : Store in a well-ventilated place. Keep cool. |
| Incompatible materials | : Alkali. |
| Heat and ignition sources | : Keep away from heat and direct sunlight. |
| Storage area | : Keep container in a well-ventilated place. Keep only in the original container. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

- | | |
|----------------------------------|--|
| Appropriate engineering controls | : Ensure good ventilation of the work station. |
| Personal protective equipment | : Protective clothing. Protective goggles. Gloves, shoulder length. Chemical resistant apron. Safety Boots. Insufficient ventilation: wear respiratory protection. |
| Hand protection | : Gloves, shoulder length |
| Eye protection | : Protective goggles |
| Skin and body protection | : Wear suitable protective clothing |
| Respiratory protection | : In case of insufficient ventilation, wear suitable respiratory equipment |



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|---------------------------------|-------------------------------------|
| Environmental exposure controls | : Avoid release to the environment. |
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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|----------------|--------------------|
| Physical state | : Liquid |
| Colour | : Clear yellowish. |
| Odour | : characteristic. |

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Odour threshold	: No data available
pH	: 1 – 2
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: -5 °C
Boiling point	: 95 – 100 °C
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: > 200 °C
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.04 – 1.06 @ 25 C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Oxidizing agent. Reducing agents.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified. Not classified.

SUDPRO 50

LD50 oral rat	> 5000 mg/kg
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POLYACRYLIC ACID MM 2000 (9003-01-4)

LD50 oral rat	2500 mg/kg
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Skin corrosion/irritation	: Causes severe skin burns. pH: 1 – 2
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: 1 – 2
Respiratory or skin sensitisation	: May cause respiratory irritation.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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SUDPRO 50	
LC50 fish 1	> 5000 mg/l (Zebra Fish)
LC50 other aquatic organisms 1	1080 mg/l (Brown Shrimp)
EC50 other aquatic organisms 1	2160 mg/l (Brown shrimp)
EC50 72h algae (1)	380 mg/l
POLYACRYLIC ACID MM 2000 (9003-01-4)	
LC50 fish 1	580 mg/l
LC50 other aquatic organisms 1	180 mg/l (Daphnia)

12.2. Persistence and degradability

SUDPRO 50	
Persistence and degradability	Inherently biodegradable.
Chemical oxygen demand (COD)	548000 mg/l
Biodegradation	29 % (35 Days)

12.3. Bioaccumulative potential

SUDPRO 50	
Bioaccumulative potential	Bioaccumulation: not applicable.
WATER (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 3265
UN-No. (IMDG)	: 3265
UN-No. (IATA)	: 3265

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
Transport document description (ADR)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. ((Contains Maleic Acid Copolymer)), 8, III, (E)
Transport document description (IMDG)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, III
Transport document description (IATA)	: UN 3265 Corrosive liquid, acidic, organic, n.o.s., 8, III

14.3. Transport hazard class(es)

ADR

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Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Danger labels (IATA) : 8



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

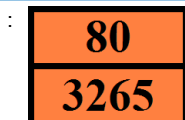
Classification code (ADR) : C3
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP1, TP28
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80

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Orange plates



Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B

- Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP28
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW2
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3
ERG code (IATA) : 8L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
SUDPRO 50 is not on the REACH Candidate List
SUDPRO 50 is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Regulatory reference : Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

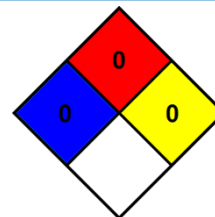
SECTION 16: Other information

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NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



Full text of H- and EUH-statements:

Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
H314	Causes severe skin burns and eye damage.

SDS ImproChem Test

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