

SUDGEN 3P DS

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 7/7/2021 Revision date: 7/7/2024

Version: 1.1

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

1.1. Product identifier

| | |
|------------------------|--------------------|
| Product form | : Substance |
| Trade name | : SUDGEN 3P DS |
| Chemical name | : Acids |
| EC Index-No. | : 017-002-00-2 |
| EC-No. | : 231-595-7 |
| CAS-No. | : 7647-01-0 |
| REACH registration No. | : 01-2119484862-27 |
| Product code | : SUDGEN 3P DS |
| Type of product | : Acids |
| Product group | : Trade product |

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Biocide

1.2.2. Uses advised against

Restrictions on use : Keep out of the reach of children

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed, in contact with skin or if inhaled. Causes serious eye burns. Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. HARMFUL IF ABSORBED THROUGH SKIN. Causes skin burns.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P250 - Do not subject to grinding/shock/friction.
P264 - Wash hands, forearms and face thoroughly after handling.
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.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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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.
P363 - Wash contaminated clothing before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : SUDGEN 3P DS
CAS-No. : 7647-01-0
EC-No. : 231-595-7
EC Index-No. : 017-002-00-2

| Name | Product identifier | % |
|-------------------|---|---------|
| Hydrochloric Acid | (CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-00-2 (REACH-no) 01-2119484862-27 | 10 – 20 |

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 : Call a physician immediately.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a doctor.
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
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. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects : Causes severe skin burns and eye damage. Harmful if swallowed. Irritation of the respiratory tract.
Symptoms/effects after inhalation : Irritation of the respiratory tract.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

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 : Non combustible.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Evacuate area. Do not approach fire except upwind and only with proper skin and respiratory protection (supplied air only).

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- Firefighting instructions : Cool laterally with water containers exposed to flames, even after the fire is extinguished. Do not enter fire area without proper protective equipment, including respiratory protection. Evacuate area. Eliminate all ignition sources if safe to do so. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Limit access only to the necessary cleaning personnel. Ventilate area.

6.1.1. For non-emergency personnel

- Protective equipment : Protective clothing. Protective goggles. Safety boots. Wear suitable respiratory equipment in case of insufficient ventilation.
- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

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 : Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Dam up the liquid spill.
- Methods for cleaning up : Contain and/or absorb spill with inert material (sand), then place in suitable container. Do not discharge into drains or the environment.
- 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

- Additional hazards when processed : DO NOT add water to acids . Always add acid to water while stirring to prevent release of heat, fumes and steam .
- Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. 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

- Technical measures : Ensure adequate ventilation, especially in confined areas. Facilities: shower, eye shower.
- Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Incompatible products : Bases, Amines, Metals, Permanganates, fluorine, Metal acetylides, hexalithium disilicide.
- Incompatible materials : Metals.
- Heat and ignition sources : Keep away from ignition sources.
- Storage area : Keep container in a well-ventilated place. Keep only in the original container. Store in a cool area.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

SUDGEN 3P DS (7647-01-0)

EU - Indicative Occupational Exposure Limit (IOEL)

| | |
|-----------------|----------------------|
| Local name | Hydrogen chloride |
| IOEL TWA | 8 mg/m ³ |
| IOEL TWA [ppm] | 5 ppm |
| IOEL STEL | 15 mg/m ³ |
| IOEL STEL [ppm] | 10 ppm |

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SUDGEN 3P DS (7647-01-0)

United Kingdom - Occupational Exposure Limits

| | |
|---------------------------|---|
| Local name | Hydrogen chloride |
| WEL TWA (OEL TWA) [1] | 2 mg/m ³ (gas and aerosol mists) |
| WEL TWA (OEL TWA) [2] | 1 ppm (gas and aerosol mists) |
| WEL STEL (OEL STEL) | 8 mg/m ³ (gas and aerosol mists) |
| WEL STEL (OEL STEL) [ppm] | 5 ppm (gas and aerosol mists) |

USA - ACGIH - Occupational Exposure Limits

| | |
|-------------------|-------------------|
| Local name | Hydrogen chloride |
| ACGIH OEL C [ppm] | 2 ppm |
| Remark (ACGIH) | URT irr |

SUDGEN (7647-01-0)

EU - Indicative Occupational Exposure Limit (IOEL)

| | |
|-----------------|----------------------|
| Local name | Hydrogen chloride |
| IOEL TWA | 8 mg/m ³ |
| IOEL TWA [ppm] | 5 ppm |
| IOEL STEL | 15 mg/m ³ |
| IOEL STEL [ppm] | 10 ppm |

United Kingdom - Occupational Exposure Limits

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| WEL TWA (OEL TWA) [1] | 2 mg/m ³ (gas and aerosol mists) |
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| WEL STEL (OEL STEL) | 8 mg/m ³ (gas and aerosol mists) |
| WEL STEL (OEL STEL) [ppm] | 5 ppm (gas and aerosol mists) |

USA - ACGIH - Occupational Exposure Limits

| | |
|-------------------|-------------------|
| Local name | Hydrogen chloride |
| ACGIH OEL C [ppm] | 2 ppm |
| Remark (ACGIH) | URT irr |

DNEL : 8 mg/m³

SUDGEN 3P DS (7647-01-0)

| | | |
|----------------|---------------------------|---|
| EU | Local name | Hydrogen chloride |
| EU | IOEL TWA | 8 mg/m ³ |
| EU | IOEL TWA [ppm] | 5 ppm |
| EU | IOEL STEL | 15 mg/m ³ |
| EU | IOEL STEL [ppm] | 10 ppm |
| United Kingdom | Local name | Hydrogen chloride |
| United Kingdom | WEL TWA (OEL TWA) [1] | 2 mg/m ³ (gas and aerosol mists) |
| United Kingdom | WEL TWA (OEL TWA) [2] | 1 ppm (gas and aerosol mists) |
| United Kingdom | WEL STEL (OEL STEL) | 8 mg/m ³ (gas and aerosol mists) |
| United Kingdom | WEL STEL (OEL STEL) [ppm] | 5 ppm (gas and aerosol mists) |
| USA - ACGIH | Local name | Hydrogen chloride |
| USA - ACGIH | ACGIH OEL C [ppm] | 2 ppm |
| USA - ACGIH | Remark (ACGIH) | URT irr |
| USA - OSHA | Local name | Hydrogen chloride |

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| SUDGEN 3P DS (7647-01-0) | | |
|--------------------------|---------------------------|---|
| USA - OSHA | OSHA PEL C | 7 mg/m ³ |
| USA - OSHA | OSHA PEL C [ppm] | 5 ppm |
| SUDGEN (7647-01-0) | | |
| EU | Local name | Hydrogen chloride |
| EU | IOEL TWA | 8 mg/m ³ |
| EU | IOEL TWA [ppm] | 5 ppm |
| EU | IOEL STEL | 15 mg/m ³ |
| EU | IOEL STEL [ppm] | 10 ppm |
| United Kingdom | Local name | Hydrogen chloride |
| United Kingdom | WEL TWA (OEL TWA) [1] | 2 mg/m ³ (gas and aerosol mists) |
| United Kingdom | WEL TWA (OEL TWA) [2] | 1 ppm (gas and aerosol mists) |
| United Kingdom | WEL STEL (OEL STEL) | 8 mg/m ³ (gas and aerosol mists) |
| United Kingdom | WEL STEL (OEL STEL) [ppm] | 5 ppm (gas and aerosol mists) |
| USA - ACGIH | Local name | Hydrogen chloride |
| USA - ACGIH | ACGIH OEL C [ppm] | 2 ppm |
| USA - ACGIH | Remark (ACGIH) | URT irr |
| USA - OSHA | Local name | Hydrogen chloride |
| USA - OSHA | OSHA PEL C | 7 mg/m ³ |
| USA - OSHA | OSHA PEL C [ppm] | 5 ppm |

DNEL : 8 mg/m³

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Personal protective equipment : Gloves, shoulder length. Face shield. Protective goggles. Protective clothing. Safety Boots. Gas mask with filter type E.
- Hand protection : PVC gloves, Nitrile gloves. neoprene gloves. Butyl rubber gloves
- Eye protection : Protective goggles. Face shield
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.



Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Molecular mass : 36.461 g/mol
- Colour : Colourless to light yellow.
- Odour : Pungent.
- Odour threshold : No data available
- pH : 0 – 1
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : > -30 °C Not applicable
- Freezing point : No data available
- Boiling point : 96 °C
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : 65 °C
- Flammability : Not applicable
- Vapour pressure : 84 mm Hg @ 20 C

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| | |
|---|-------------------------------------|
| Relative vapour density at 20°C | : No data available |
| Relative density | : No data available |
| Density | : 1.0745 g/m ³ |
| Solubility | : Soluble in water. Water: 100 % |
| 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

Reacts violently with (some) bases. Corrosive.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Attacks many metals in the presence of water forming flammable explosive gas (hydrogen) . Reacts violently with oxidantd forming toxic gas (chlorine).

10.4. Conditions to avoid

Heat. Incompatible materials. Metals. Bases.

10.5. Incompatible materials

Bases, Amines, Metals, Permanganates, fluorine, Metal acetylides, hexalithium disilicide.

10.6. Hazardous decomposition products

Hydrogen chloride. Chlorine. May generate flammable hydrogen gas, avoid contact with incompatible materials.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| Hydrochloric Acid (7647-01-0) | |
|-------------------------------|--------------|
| LD50 oral rat | 900 mg/kg |
| LD50 dermal rabbit | > 5010 mg/kg |
| LC50 Inhalation - Rat [ppm] | 3124 ppm/1h |

| Hydrochloric Acid (7647-01-0) | |
|-------------------------------|-----------------|
| LD50 oral rat | 238 – 277 mg/kg |
| LD50 dermal rabbit | > 5010 mg/kg |
| LC50 Inhalation - Rat [ppm] | 3124 ppm/1h |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Causes severe skin burns. pH: 0 – 1 |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 0 – 1 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.
Ecology - water : This material is toxic to fish and aquatic organisms . Most aquatic species do not tolerate pH lower than 5.5 for any extended period.

| Hydrochloric Acid (7647-01-0) | |
|------------------------------------|---------------------------------|
| LC50 - Fish [1] | 3.25 mg/l Bluegill (48 hours) |
| LC50 - Fish [2] | 282 mg/l Mosquito fish |
| EC50 - Other aquatic organisms [1] | 4.92 mg/l EC50 waterflea (48 h) |
| EC50 - Other aquatic organisms [2] | 4.5 mg/l IC50 algea (72 h) mg/l |

| Hydrochloric Acid (7647-01-0) | |
|------------------------------------|---------------------------------|
| LC50 - Fish [1] | 3.25 mg/l Bluegill (48 hours) |
| LC50 - Fish [2] | 282 mg/l Mosquito fish |
| EC50 - Other aquatic organisms [1] | 4.92 mg/l EC50 waterflea (48 h) |
| EC50 - Other aquatic organisms [2] | 4.5 mg/l IC50 algea (72 h) mg/l |

12.2. Persistence and degradability

| Hydrochloric Acid (7647-01-0) | |
|-------------------------------|--------------------|
| Persistence and degradability | Not biodegradable. |
| Persistence and degradability | Not biodegradable. |

12.3. Bioaccumulative potential

| 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

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1789
UN-No. (IMDG) : 1789
UN-No. (IATA) : 1789

14.2. UN proper shipping name

Proper Shipping Name (ADR) : HYDROCHLORIC ACID
Proper Shipping Name (IMDG) : HYDROCHLORIC ACID
Proper Shipping Name (IATA) : Hydrochloric acid
Transport document description (ADR) : UN 1789 HYDROCHLORIC ACID, 8, II, (E)
Transport document description (IMDG) : UN 1789 HYDROCHLORIC ACID, 8, II
Transport document description (IATA) : UN 1789 Hydrochloric acid, 8, II

14.3. Transport hazard class(es)

ADR

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



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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) : II
Packing group (IMDG) : II
Packing group (IATA) : II

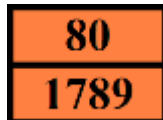
14.5. Environmental hazards

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) : C1
Special provisions (ADR) : 520
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions (ADR) : T8
Portable tank and bulk container special provisions (ADR) : TP2
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2R

- Transport by sea

Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02

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| | |
|------------------------------------|--|
| IBC special provisions (IMDG) | : B20 |
| Tank instructions (IMDG) | : T8 |
| Tank special provisions (IMDG) | : TP2 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-B |
| Stowage category (IMDG) | : C |
| Properties and observations (IMDG) | : Colourless liquid. An aqueous solution of the gas hydrogen chloride. Highly corrosive to most metals. Causes burns to skin, eyes and mucous membranes. |

- Air transport

| | |
|--|--------|
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y840 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA) | : 851 |
| PCA max net quantity (IATA) | : 1L |
| CAO packing instructions (IATA) | : 855 |
| CAO max net quantity (IATA) | : 30L |
| 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

Not listed on REACH Annex XVII
Not listed on the REACH Candidate List
Not listed on REACH Annex XIV (Authorisation List)

15.1.2. National regulations

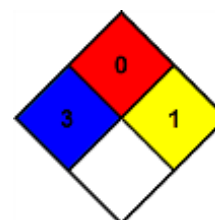
No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| | |
|--------------------|---|
| NFPA health hazard | : 3 - Materials that, under emergency conditions, can cause serious or permanent injury. |
| 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 | : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures. |



Full text of H- and EUH-statements:

| | |
|---------------|--|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |

SDS ImproChem Test

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