

PCS2

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Product name: **PCS² BT25**
Synonyms: Scale inhibitor.

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: Processing aid for industrial application.
Uses advised against: None Known.

1.3 COMPANY IDENTIFICATION

Company: PCS²
PO Box 1073
Canonsburg, PA 15317
Telephone: (412) 889-3571
Fax: (724) 941-5030

1.4 EMERGENCY Telephone NUMBER

24-hour emergency number: Chemtrec (800) 424-9300 CCN# 634803

SECTION 2: HAZARD IDENTIFICATION

2.1 GHS Classification of the substance or mixture

Classification according to paragraph (d) of Regulation 29 CFR 1910.1200

Skin corrosion/ irritation: Category 2
Serious eye damage/ eye irritation: Category 2B
Acute Toxicity – oral: Category 5

2.2 Label elements

Labeling according to paragraph (f) of Regulation 29 CFR 1910:1200

Hazard symbol(s):



Signal word:

Warning.

Hazard statement(s):

H303: May be harmful if swallowed.
H315: Causes skin irritation.
H320: Causes eye irritation.

2.3 Precautionary Statements

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352+P362+P364

IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash before reuse.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338

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

P308+P313

If exposed or concerned: Get medical advice/ attention.

P391

Collect spillage.

Prevention:

P203

Obtain, read, and follow all safety instructions before use.

P233

Keep container tightly closed.

P261

Avoid breathing mists, vapors, or spray.

P264

Wash thoroughly after handling.

P270

Do not eat, drink, or smoke when using this product

P273

Avoid release to the environment.

P280

Wear protective gloves and clothing, with appropriate eye and face protection.

Storage:

P403+P233

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

P405

Store locked up.

Disposal:

P501

Dispose of contents/container in accordance with all local, state, and federal requirements.

2.4 Other hazards

None Known.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not Applicable. This product is not a substance.

3.2 Mixtures

| <i>Hazardous Components</i> | <i>CAS Number</i> | <i>Weight %</i> |
|--|-------------------|-----------------|
| Water | 7732-18-5 | 60 - 100 |
| Tetrasodium ethylenediamine tetraacetate | 64-02-8 | 7 - 13 |
| Acrylic copolymer | 40623-75-4 | 1 - 5 |
| | | |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:

Move to fresh air. Seek medical attention if symptoms appear.

Skin Contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists get prompt medical attention.

Ingestion:

Call a poison center or doctor/physician if you feel unwell. Rinse mouth with water. DO NOT induce vomiting. Get medical attention immediately if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

4.4 Other Information

None.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, carbon dioxide, dry powder.

Unsuitable extinguisher media:

None Known.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products:

None Known

5.3 Advice for fire fighters

Protective measures:

Wear self-contained breathing apparatus and protective suit.

5.4 Other information

None.

SECTION 6: ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions:

Do not touch or walk through spilled material. Avoid all contact with eyes and skin.

Protective equipment:

Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency procedures:

Use suitable absorbent material to soak up spill. Sweep up spills put in suitable container for disposal.

6.2 Environmental precautions

As with all chemical products, do not flush into surface water.

6.3 Methods and material for containment and cleaning up

Small spills:

Soak up with absorbent material and place in suitable container for disposal.

Large spills:

Do not flush with water. Soak up with absorbent material and place in suitable container for disposal.

Residues:

Soak up with absorbent material and place in suitable container for disposal.

6.4 Reference to other sections

Section 7: Handling and storage; Section 8: Exposure controls/personal protection; Section 9: Physical and chemical properties; Section 13: Disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Ensure adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place. Store in original container.

7.3 Specific end use(s)

None.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits on material as supplied:

None Established

Occupational exposure limits of hazardous components:

| <i>Components:</i> | <i>CAS Number</i> | <i>OSHA PEL-TWA (ST) STEL (C) Ceiling</i> | <i>NIOSH REL-TWA (ST) STEL (C) Ceiling</i> | <i>ACGIH TLV-TWA (ST) STEL (C) Ceiling</i> |
|--|-------------------|---|--|--|
| Water | 7732-18-5 | None established | None established | None established |
| Tetrasodium ethylenediamine tetraacetate | 64-02-8 | None established | None established | None established |
| Acrylic copolymer | 40623-75-4 | None established | None established | None established |
| | | | | |

8.2 Exposure controls

Appropriate engineering controls:

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mist

Personal Protective Equipment (PPE)

Eye/Face protection:

Splash goggles and face shield.

Skin protection:

Chemical resistant clothes protecting arms, legs, and body.

Hand protection:

PVC or other plastic material gloves.

Respiratory protection:

None required under normal use. If misting occurs, use NIOSH/MSHA approved respirator equipment.

Additional advice:

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment. Do not flush into surface water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--|--------------------------------|
| Appearance | Clear-Slightly hazy, Colorless |
| Odor | Mild |
| Odor Threshold | No data available |
| pH | 9 – 11 |
| Melting point/freezing point | < 0 °C |
| Initial boiling point and boiling range | ~ 100 °C |
| Flash point | No data available. |
| Evaporation rate | No data available. |
| Flammability (solid, gas): | No data available. |
| Upper/lower flammability or explosive limits | No data available. |
| Vapor pressure | No data available. |
| Vapor density | No data available. |
| Relative density | 1.08 |
| Solubility(ies) | Completely miscible in water |
| Partition coefficient | No data available. |
| Auto ignition temperature | No data available. |
| Decomposition temperature | No data available. |
| Viscosity | No data available. |
| Explosive properties | No data available. |
| Oxidizing properties | No data available. |

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Protect from frost, heat, and sunlight. Oxidizing agents.

10.5 Incompatible materials

Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on the product as supplied:

| | |
|---------------------------|--------------------|
| Acute oral toxicity | No data available. |
| Acute dermal toxicity | No data available. |
| Acute inhalation toxicity | No data available. |

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory/skin sensitization
Mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT – repeated exposure
Aspiration hazard

Prolonged contact may cause skin irritation with local redness
May cause irritation..
No data available.
No data available.
This product is not expected to be carcinogenic
This product is not expected to interfere with reproduction
No data available.
No data available.
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Information on the product as supplied:

| | |
|-----------------------------------|--|
| Acute toxicity to fish | No data available. |
| Acute toxicity to invertebrates | EC ₅₀ /Daphnia magna/48 hours: 2500 mg/L. |
| Acute toxicity to algae | No data available. |
| Chronic toxicity to fish | No data available. |
| Chronic toxicity to invertebrates | No data available. |
| Toxicity to microorganisms | No data available. |
| Effects on terrestrial organisms | No data available. |
| Sediment toxicity | No data available. |

12.2 Persistence and degradability

| | |
|--------------|--------------------|
| Degradation: | No data available. |
| Hydrolysis: | No data available. |
| Photolysis: | No data available. |

12.3 Bio-accumulative potential

Information on the product as supplied:

No bioaccumulation is expected.

| | |
|-----------------------------------|-------------------|
| Partition co-efficient (Log Pow): | No data available |
| Bio concentration factor (BCF): | No data available |

12.4 Mobility in soil

Information on the product as supplied: No data available.

12.5 Other adverse effects

None Known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

| | |
|--|--|
| Waste from residues / unused products: | Dispose of in accordance with local, state, and federal regulations. |
| Contaminated packaging: | Rinse empty containers with water and reuse the rinse water to prepare working solution. Dispose in accordance with the local, state, and federal regulations. |
| Recycling: | The product and its packaging are not suitable for recycling. |

SECTION 14: TRANSPORT INFORMATION

Land transport (DOT)

UN Number Not regulated
Proper Shipping Name
Hazard Class
Packing Group

Sea transport (IMDG)

UN Number Not regulated
Proper Shipping Name
Hazard Class
Packing Group

Air transport (IATA)

UN Number Not regulated
Proper Shipping Name
Hazard Class
Packing Group

SECTION 15: REGULATORY INFORMATION

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

Information on the product as supplied:

TSCA Chemical Substances Inventory:

All components of this product are either listed on the inventory or are exempt from listing.

US SARA Reporting Requirements:

Section 302/304: Extremely hazardous substance :

| <u>Component(s)</u> | <u>CASRN</u> | <u>302 TPQ (lbs)</u> | <u>304 RQ (lbs)</u> |
|----------------------------|---------------------|-----------------------------|----------------------------|
| None | | | |

Section 311/312: Acute Toxicity : Skin Corrosion or Irritation : Serious eye damage or eye irritation

Section 313: - This material contains the following chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SAF Title III.

| <u>Component(s)</u> | <u>CASRN</u> |
|----------------------------|---------------------|
| None | |

CAA (112r)/ HAPS:

| <u>Component(s)</u> | <u>CASRN</u> |
|----------------------------|---------------------|
| None | |

CWA: This product contains the following substances regulated as pollutants pursuant to the CWA (40 CFR 122.21 and 40 CFR 122.42).

| <u>Component(s)</u> | <u>CASRN</u> | <u>CWA RQ (lbs)</u> | <u>Product RQ (lbs)</u> |
|----------------------------|---------------------|----------------------------|--------------------------------|
| None | | | |

CERCLA:

| <u>Component(s)</u> | <u>CASRN</u> | <u>(RQ) (lbs)</u> | <u>Product RQ (lbs)</u> |
|----------------------------|---------------------|--------------------------|--------------------------------|
| None | | | |

Pennsylvania Worker and Community Right-To-Know Act:

The following chemicals are listed because of the additional requirements of Pennsylvania law:

| <u>Components</u> | <u>CASRN</u> |
|--------------------------|---------------------|
|--------------------------|---------------------|

None

California Proposition 65 Information:

WARNING: This product may contain the following chemical(s) known to the State of California to cause cancer, birth defects, or other reproductive harm:

Components

CASRN

None

SECTION 16: OTHER INFORMATION

NFPA and HMIS Ratings:

NFPA:

| | |
|-------------|---|
| Health | 2 |
| Fire Hazard | 0 |
| Reactivity | 0 |

HMIS

| | |
|-----------------|---|
| Health | 2 |
| Flammability | 0 |
| Physical Hazard | 0 |
| PPE Code | D |

This SDS was prepared in accordance with the following:

U.S. Code of Federal Regulations 29 CFR 1910.1200

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**** END OF SDS ****

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