

PCS²

SAFETY DATA SHEET

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

1.1 Product Identifier

Product name: **PCS2 BT5S**
Synonym: Sulfite mixture.

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 Inc.
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, inhalation: 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):

H315: Causes skin irritation.
H320: Causes eye irritation.
H333: May be harmful if inhaled.

2.3 Precautionary Statements

Response:

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

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P302+P352+P362+P364

IF ON SKIN: Wash with plenty of water. Take off contaminated clothing. Wash contaminated clothing 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, if present and easy to do. Continue rinsing.

P308+P313

If exposed or concerned: Get medical advice/ attention.

P391

Collect spillage. Call a POISON CENTER or doctor/physician if you feel unwell.

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 local, state and federal regulations.

2.4 Other hazards

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not Applicable. This product is not a substance.

3.2 Mixtures

Hazardous Components	CAS Number	Weight %
Water	7732-18-5	60 - 100
Sodium Sulfite	7757-83-7	10 - 30

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:

Remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation occurs.

Skin Contact:

Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists get medical attention. Wash with soap and water.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

Ingestion:

If fully conscious, give large quantities of water or milk immediately. Obtain medical attention. Never give anything by mouth to an unconscious victim.

4.2 Most important symptoms and effects, both acute and delayed

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Exposure may aggravate acute or chronic asthma, emphysema and bronchitis.

4.3 Indication of any immediate medical attention and special treatment needed

None reasonably foreseeable.

4.4 Other Information

None.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Dry chemical, CO₂, water spray or alcohol-resistant foam for surrounding fire conditions.

Unsuitable extinguisher media:

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products:

Sulfur Oxides, irritating and/or toxic gases, corrosive vapors.

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:

Evacuate personnel to safe areas. Limit access to spill area.

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. Keep people away from spill/leak.

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:

For small spills, absorb material with clay absorbent or other compatible material. Dispose of the waste according to local, state and federal requirements.

Large spills:

Contain the material using barriers of absorbent pigs, clay absorbent, or earth dams. Take up mechanically, placing in appropriate containers for disposal.

Residues:

Flush away with large quantities of water.

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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

7.3 Specific end use(s)

None.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits of hazardous components:

Components:	CAS Number	OSHA PEL-TWA (ST) STEL (C) Ceiling	NIOSH REL-TWA (ST) STEL (C) Ceiling	ACGIH TLV-TWA (ST) STEL (C) Ceiling
Water	7732-18-5	None Established	None Established	None Established
Sodium Sulfite	7757-83-7	None Established	None Established	None Established

8.2 Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment (PPE)

Eye/Face protection:

Safety glasses with side shields, goggles, or face shield.

Skin protection:

Work clothes protecting arms, legs, and body.

Hand protection:

PVC or other plastic material gloves.

Respiratory protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

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/colorless to slightly yellow, liquid

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Odor	None
Odor Threshold	Not applicable
pH	8 - 10
Melting point/freezing point	< 0 °C.
Initial boiling point and boiling range	> 100 °C.
Flash point	Not applicable.
Evaporation rate	No data available.
Flammability (solid, gas):	No data available.
Upper/lower flammability or explosive limits	Not expected to create explosive atmospheres
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	Soluble in water.
Partition coefficient	No data available.
Auto ignition temperature	Does not self-ignite (based on the chemical structure)
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

Hazardous polymerization will not occur under normal conditions.

10.4 Conditions to avoid

Avoid excessive heat and open flames. Releases toxic gases.

10.5 Incompatible materials

Strong acids, strong oxidizing agent,

10.6 Hazardous decomposition products

Sulfur Oxides.

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	Causes skin irritation.
Serious eye damage/eye irritation	Causes eye irritation.
Respiratory/skin sensitization	May irritate respiratory tract.
Mutagenicity	This product is not expected to be mutagenic
Carcinogenicity	This product is not expected to be carcinogenic

Reproductive toxicity
STOT-single exposure
STOT – repeated exposure
Aspiration hazard

This product is not expected to interfere with reproduction
May cause respiratory tract irritation.
No known effects
No hazards resulting from material as supplied

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Information on the product as supplied:

Acute toxicity to fish	No data available.
Acute toxicity to invertebrates	LC 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:	Not readily biodegradable.
Hydrolysis:	Does not hydrolyse.
Photolysis:	No data available.

12.3 Bio-accumulative potential

Information on the product as supplied:

Not expected to bio-accumulate

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: None.

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:	Dispose of in accordance with local, state, and federal regulations.
Recycling:	Dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

<u>Land transport (DOT)</u>	Not regulated
UN Number	
Proper Shipping Name	
Hazard Class	
Packing Group	

Sea transport (IMDG) Not regulated
UN Number
Proper Shipping Name
Hazard Class
Packing Group

Air transport (IATA) Not regulated
UN Number
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: Skin Corrosion or Irritation : Serous eye damage or eye irritation : Acute Toxicity

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

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

CAA (112r) HAPS: This product contains the following substances regulated as pollutants pursuant to the Clean Air Act (CAA) and/or Hazardous Air Pollutants (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:

<u>Components</u>	<u>CASRN</u>
None	

SECTION 16: OTHER INFORMATION

NFPA and HMIS Ratings:

Health	1
Fire Hazard	0
Reactivity	0

HMIS:

Health	1
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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