

PCS2, Inc.

SAFETY DATA SHEET

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

1.1 Product Identifier

Product name: **PCS2 CD-100**
Synonym: 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

Acute toxicity, oral: Category 5
Skin corrosion/irritation: Category 3
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): None

Signal word: Warning.

Hazard statement(s):

H303: May be harmful if swallowed.
H316: Causes mild skin irritation.
H320: Causes eye irritation.
H333: May be harmful if inhaled.

2.3 Precautionary Statements

Response:

P301+P330+P331

P302+P352+P362+P364

P304+P340

P305+P351+P338

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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P308+P313
P391

present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/ attention.
Collect spillage.

Prevention:

P203
P233
P261
P264
P270
P273
P280

Obtain, read, and follow all safety instructions before use.
Keep container tightly closed.
Avoid breathing mists, vapors, or spray.
Wash thoroughly after handling.
Do not eat, drink, or smoke when using this product
Avoid release to the environment.
Wear protective gloves and clothing, with appropriate eye and face protection.

Storage:

P403+P233
P405

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

Disposal:

P501

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

2.4 Other hazards

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
Sodium Hexametaphosphate	68915-31-1	1 - 5
Hydroxyphosphono acetic acid, sodium salt	128192-25-6	1 - 5
1-Hydroxyethylidene-1,1-diphosphonic acid, potassium salt	67953-76-8	1 - 5
2-Phosphonobutane-1,2,4-tricarboxylic acid, sodium salt	40372-66-5	1 - 5
Acrylic Copolymer	40623-75-4	1 - 5
Sodium Molybdate	7631-95-0	0.1 - 1

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:

Move to fresh air. No hazards which require special first aid measures.

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

None.

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:

Use water spray, foam, carbon dioxide, dry powder.

Unsuitable extinguisher media:

None.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products:

Carbon Oxides, Potassium Oxides, Sodium Oxides, Phosphorus Oxides.

5.3 Advice for fire fighters

Protective measures:

Wear self-contained breathing apparatus and protective suit.

5.4 Other information

Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SECTION 6: ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions:

Do not touch or walk through spilled material. 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:

Do not flush with water. Use suitable absorbent material to soak up spill. Sweep up and shovel into suitable container for disposal.

Large spills:

Do not flush with water. Use suitable absorbent material to soak up spill and create dam. Sweep up and shovel into suitable container for disposal.

Residues:

Flush away with large quantities of water. Prevent spill rinse from entering storm drains, sewers, soil or groundwater.

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.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry place away from heat and sources of ignition. Freezing may affect the physical condition of material.

7.3 Specific end use(s)

None.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits on material as supplied:

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 Hexametaphosphate	68915-31-1	None Established	None Established	None Established
Hydroxyphosphono acetic acid, sodium salt	128192-25-6	None Established	None Established	None Established
1-Hydroxyethylidene-1,1-diphosphonic acid, potassium salt	67953-76-8	None Established	None Established	None Established
2-Phosphonobutane-1,2,4-tricarboxylic acid, sodium salt	40372-66-5	None Established	None Established	None Established
Acrylic Copolymer	40623-75-4	None Established	None Established	None Established
Sodium Molybdate (soluble compounds, as Mo)	7631-95-0	5 mg/m ³	5 mg/m ³ 1000 mg/m ³ (IDHL – as Mo)	0.5 mg/m ³ (Resp. fraction) 10 mg/m ³ (Inhalable fraction)

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:

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:

None required under normal use.

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/Dark Amber
Odor	None
Odor Threshold	Not applicable
pH	5 - 8
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):	Not applicable.
Upper/lower flammability or explosive limits	Not expected to create explosive atmospheres
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	1.05 – 1.15
Solubility(ies)	Completely miscible 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	Not applicable.
Oxidizing properties	Not applicable.

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 freezing, heat, and sunlight.

10.5 Incompatible materials

Strong acids. Strong bases. Oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, Sodium oxides, phosphorus oxides, nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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Information on the product as supplied:

Acute oral toxicity	No data available.
Acute dermal toxicity	No data available.
Acute inhalation toxicity	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation	May cause irritation.
Serious eye damage/eye irritation	May cause eye irritation.
Respiratory/skin sensitization	No data available.
Mutagenicity	This product is not expected to be mutagenic.
Carcinogenicity	This product is not expected to be carcinogenic.
Reproductive toxicity	This product is not expected to interfere with reproduction.
STOT-single exposure	No known effects.
STOT – repeated exposure	No known effects.
Aspiration hazard	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:	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

<u>Information on the product as supplied:</u>	Not expected to be exposed to soil.
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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 use the rinse water to prepare working solution. Dispose

in accordance with the local and national regulations.

The product and its packaging are not suitable for recycling.

Recycling:

SECTION 14: TRANSPORT INFORMATION

Land transport (DOT) 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 : Serious 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 by 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			

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Pennsylvania Worker and Community Right-To-Know Act:

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

Components

CASRN

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	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 or 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 ****