

PCS²

SAFETY DATA SHEET

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

1.1 Product Identifier

Product name: **PCS² CC-90**
Synonym: Corrosion 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 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 4
Skin corrosion/ irritation: Category 1C
Serious eye damage/ eye irritation: Category 1
Reproductive toxicity: Category 2

2.2 Label elements

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

Hazard symbol(s):



Signal word: Danger.

Hazard statement(s):

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H361: Suspected of damaging fertility or the unborn child.

2.3 Precautionary Statements

Response:

P301+P330+P331
P302+P352+P362+P364

P304+P340
P305+P351+P338

P308+P313
P391

Prevention:

P203
P233
P261
P264
P270
P273
P280

Storage:

P403+P233
P405

Disposal:

P501

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of water. Take off contaminated clothing. Wash contaminated clothing 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 present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/ attention.
Collect spillage.

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.

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

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

2.4 Other hazards

Spills produce extremely slippery surfaces.

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	40 - 70
Sodium tolyltriazole	64665-57-2	30 - 60

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

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. If victim is conscious, give a cupful of water. Never give anything by mouth to an unconscious person. 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

Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns and/or ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal or esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

4.4 Other Information

None.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Use extinguishing agent suitable for type of surrounding fire. Cool all affected containers with flooding quantities of water.

Unsuitable extinguisher media:

None.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products:

Thermal decomposition may produce: Carbon and Nitrogen oxides.

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.

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. Soak up with absorbent material (sand, earth, inert material or vermiculite) and place in suitable container for waste disposal up spill. Sweep up and shovel into suitable container for disposal.

Large spills:

Discharge Do not flush with water. Use suitable absorbent material to soak up spill and create dam. Soak up with absorbent material (sand, earth, inert material or vermiculite) and place in suitable container for waste disposal. Sweep up and shovel into suitable container for disposal.

Residues:

Do not flush with water. Soak up with absorbent material (sand, earth, inert material or vermiculite) and place in suitable container for waste disposal up spill. Sweep up and shovel into 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. Wash thoroughly after handling. Avoid breathing dust, mist or vapor. Use only with adequate ventilation. Avoid ingestion and inhalation. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container tightly closed in a dry and well-ventilated place. Store contents under containers that are resistant to caustic solutions. Do not breathe dust, vapor, mist, or gas.

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:

<u>Components:</u>	<u>CAS Number</u>	<u>OSHA PEL-TWA (ST) STEL (C) Ceiling</u>	<u>NIOSH REL-TWA (ST) STEL (C) Ceiling</u>	<u>ACGIH TLV-TWA (ST) STEL (C) Ceiling</u>
Water	7732-18-5	None Established	None Established	None Established
Sodium tolyltriazole	64665-57-2	None Established	None Established	None Established

8.2 Exposure controls

Appropriate engineering controls:

Ventilation should be provided to control worker exposures and prevent health risks and as necessary to reduce, prevent and control dust, mist, vapor or aerosol generation. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

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:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridge as a backup to engineering controls.

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	Amber liquid.
Odor	Characteristic.
Odor Threshold	Not applicable
pH	12 – 13.5
Melting point/freezing point	-8 °C.
Initial boiling point and boiling range	>100 °C.
Flash point	No data available.
Evaporation rate	< 0.8 (estimated)
Flammability (solid, gas):	Not applicable.
Upper/lower flammability or explosive limits	Not expected to create explosive atmospheres
Vapor pressure	23 mm Hg @ 25 °C.
Vapor density	No data available.
Relative density	1.19
Solubility(ies)	Completely miscible in water
Partition coefficient	Log Pow: 1.71 (estimated)
Auto ignition temperature	No data available.
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 heat, and sunlight.

10.5 Incompatible materials

Oxidizing agents, acidic conditions

10.6 Hazardous decomposition products

Thermal decomposition may produce: Carbon and Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on the product as supplied:

Acute oral toxicity	No information available.
Acute dermal toxicity	No information available.
Acute inhalation toxicity	No information available.
Skin corrosion/irritation	Severe skin burns.
Serious eye damage/eye irritation	Serious eye damage.
Respiratory/skin sensitization	Not expected to experience sensitization
Mutagenicity	This product is not expected to be mutagenic
Carcinogenicity	This product is not expected to be carcinogenic
Reproductive toxicity	May cause birth defects in laboratory animals.
STOT-single exposure	No known effects
STOT – repeated exposure	No known effects
Aspiration hazard	No hazards resulting from material as supplied

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Information on the product as supplied:

Acute toxicity to fish	LC50/Oncorhynchus mykiss/96 hours = 24 mg/L
Acute toxicity to invertebrates	EC50/Daphnia magna/48 hours = > 280 mg/L
Acute toxicity to algae	EC50/Pseudokirchneriella subcapitata/96 hours = > 280 mg/L
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:

Not expected to bio-accumulate

Partition co-efficient (Log Pow):	<0
Bio concentration factor (BCF):	~0

12.4 Mobility in soil

Information on the product as supplied: Not expected to be exposed to soil.

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 the use 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

UN3267

Proper Shipping Name

Corrosive liquid, basic, organic, n.o.s. (Sodium Tolytriazole)

Hazard Class

8

Packing Group

III

Sea transport (IMDG)

UN Number

UN3267

Proper Shipping Name

Corrosive liquid, basic, organic, n.o.s. (Sodium Tolytriazole)

Hazard Class

8

Packing Group

III

Air transport (IATA)

UN Number

UN3267

Proper Shipping Name

Corrosive liquid, basic, organic, n.o.s. (Sodium Tolytriazole)

Hazard Class

8

Packing Group

III

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 :

Component(s)

CASRN

302 TPQ (lbs)

304 RQ (lbs)

None

Section 311/312: Skin Corrosion or Irritation : Serious eye damage or eye irritation : Reproductive toxicity : 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.

Component(s)

CASRN

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)

Component(s)

CASRN

None

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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:

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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