Safety Data Sheet
Product: PCT 5300 M

Issue date: 08/25/14
Revisions:

Issued to conform to 29 CFR 1910.120 (2012), ANSI Z400.5, and GHS

Section 1 - Identification

a) Product Label: PCT 5300 M
b) Other identification: boiler treatment compound
c) Uses: scale and deposition inhibitor in steam boilers
d) Manufacturer: ProChemTech International, Inc.
51 ProChemTech Drive, PO Box 214
Brockway, PA 15824
e) Emergency Phone: 800-255-3924 Information Phone: 814-265-0959

Section 2 - Hazard Identification **Signal word: none**

a) Hazard classification: none
b) Signal word: none
Hazard statement: non-hazardous
Precautionary statements:
wear safety glasses when handling neat product
avoid contact with skin and eyes
store in secure area
c) Other hazards: none
d) Untested ingredients over 1%: none

Section 3 - Composition/information on ingredients that are health hazards

	ingredient	CAS	% by weight
a)	potassium hydroxide	1310-58-3	<1

Section 4 - First aid measures

a) 1. Inhalation: remove to fresh air, seek immediate medical attention
2. Ingestion: Rinse mouth. Do not induce vomiting. Give several glasses of milk or water to drink to dilute. Seek immediate medical attention.
3. Skin contact: remove any contaminated clothing, wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists
4. Eye contact: immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do. Seek immediate medical attention.
b) Most important symptoms: soapy feeling followed by mild irritation, burning sensation in eyes

c) Special treatment if needed: In case of ingestion, any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate stomach contents, this should be done by means least likely to cause aspiration.

Section 5 - Fire fighting measures

a) Suitable and unsuitable extinguishing media: none, non-flammable

b) Specific hazards from combustion products: carbon dioxide and monoxide may be produced

Section 6 - Accidental release measures

a) 1. Personal precautions: spilled product is a slip hazard

2. Protective equipment: rubber boots and gloves

3. Emergency procedures: secure area of spill or leak. In the event of a fire, wear full protective clothing and NIOSH approved self contained breathing apparatus with full facepiece operated in pressure demand mode.

b) Methods and materials for containment and cleaning

1. Stop spill or leak at source. Contain spilled material by dikes using any convenient material.

2. Contain and recover liquid when possible by vacuum, mop, or similar method of liquid pickup.

3. Liquid can be diked/contained and absorbed with inert materials such as vermiculite, dry sand, earth, saw dust, cat litter, or similar material. Following pickup of free liquids, spill areas can be flushed with fresh water and rinsate discharged to sanitary sewer. Check regulations for pH of discharge and neutralize with citric acid if required. Do not discharge to stream.

Section 7 - Handling and storage

a) Protect containers from physical damage. Store in secure, cool, dry, area away from low pH materials.

Section 8 - Exposure controls/personal protection

a) ACGIH Exposure Level: none

b) Engineering controls: A system of local or general exhaust is recommended to keep employee exposures below airborne exposure limits. Local exhaust is generally preferred because it can control emissions of the contaminant at its source.

c) Personal protection equipment: Wear safety glasses and clean, body covering clothing when working with neat product. Eye wash fountain and quick drench facilities should be maintained in work area.

Section 9 - Physical and chemical properties

a) Appearance: clear amber liquid

b) Odor: none

c) Odor threshold: not determined

d) pH: 9.0 to 10.0

e) Melting/freezing point: 32 F
f) Initial boiling point: not determined
g) Flash point: none
h) Evaporation rate: water
i) Flammability: no
j) Flammability limits: none, non-flammable
k) Vapor pressure: water
l) Vapor density: water
m) Relative density: 9.3 lb/gallon
n) Solubility: 100% in water
o) Partition coefficient n-octanol/water: not determined
p) Auto ignition temperature: none
q) Decomposition temperature: not determined
r) Viscosity: not determined

Section 10 - Stability and reactivity

a) Reactivity: non-reactive under ordinary conditions of use and storage
b) Chemical stability: stable under ordinary conditions of use and storage
c) Possibility of hazardous reactions: none under ordinary conditions of use and storage
d) Conditions to avoid: mixture with strong acids and oxidizing agents
e) Incompatible materials: strong acids and oxidizing agents
f) Hazardous decomposition products: carbon dioxide and monoxide may form when heated to decomposition or by partial combustion.

Section 11 - Toxicological information

a) Likely routes of exposure:
1. Inhalation: not considered significant
2. Ingestion: not considered significant
3. Skin contact: not considered significant
4. Eye contact: irritant hazard

b) Related symptoms:
1. Inhalation: irritation
2. Ingestion: irritation
3. Skin contact: irritation on long term contact
4. Eye contact: severe irritation, burning sensation

c) Immediate, delayed, and chronic effects from short and long term exposure: short term corrosive, no delayed or chronic effects reported.
d) Toxicity data: potassium hydroxide
oral rat LD 50: 364 mg/kg
e) NTP and IRAC listings: NTP known - no; anticipated - no
IARC category - none

Section 12 - Ecological information
a) Ecotoxicity data: potassium hydroxide
mosquito fish 96 hr LC 50: 80 mg/l
guppy 24 hr LC 50: 165 mg/l
b) Persistence and degradability: Forms insoluble complex with calcium with release to soil and water. Organic content readily biodegrades in environment.
c) Bioaccumulative potential: none
d) Mobility in soil: will leach into ground water

Section 13 - Disposal considerations
Preferred method of disposal is recovery and/or recycling. Small quantities may be diluted and discharged to sanitary sewer. Note product pH may be above discharge limits. Rinse containers three times before recycle or disposal. Consult specific federal, state and local requirements and regulations as substantial differences may exist as to product and container disposal.

Section 14 - Transport information
a) UN number: not regulated
b) UN proper shipping name: boiler compound
c) Transport hazard class(es): none
d) Packing group: none
e) Environmental hazards: none known
f) Transport in bulk: no regulation
g) Special precautions: none found

Section 15 - Regulatory information
a) TSCA: all components registered
b) SARA 302 EHS: no
c) SARA 313 listed: no
d) CERCLA reporting: no
e) RCRA 261.33 regulated: no
f) NFPA ratings:
1. Health - 1
2. Flammability - 0
3. Reactivity - 0

Section 16 - Date of preparation, last revision
a) Issue date: 08/25/14
b) Last revisions date: none