

SAFETY DATA SHEET

1. Identification Revision Date: 01-01-2017 Issue Date: 01-01-2017

Product identifier <u>BOILER TREATMENT #70</u>

Other means of identification None

Recommended use ALL PROPER AND LEGAL PURPOSES

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Tamco Chemical, Inc.
Address 2919 Oak Street
Santa Ana, CA 92707

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Emergency phone number 714-543-6912

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4
Serious eye damage/eye irritation Category 1

Environmental hazards Not classified

OSHA defined hazards Not classified.

Label elements





Signal word Danger

Hazard statement Harmful if swallowed. Causes serious eye damage.

Precautionary statement

Prevention Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Wear eye protection/face protection

Response If swallowed: Call a poison center/doctor if you feel unwell. If in

eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Rinse mouth.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazard(s) not otherwise Classified (HNOC)

None known.

Supplemental information 95% of the mixture consists of component(s) of unknown acute oral

toxicity.

3. Composition/Information on ingredients

Mixtures

Chemical name Common name and synonyms CAS number %
CARBONIC ACID SODIUM SALT 497-19-8 3
GLYCINE 64-02-8 2
N,N'-1,2-ETHANEDIYLBIS {N-(carboxymethyl)-, SODIUM SALT(1:4)}
Other components below reportable levels 5

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation

develops and persists.

Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at

least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Call a physician or poison control center

immediately.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs. Get medical advice/attention if you

feel unwell.

Most important symptoms/effects, Severe eye irritation.

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dust may irritate the respiratory tract, skin and eyes.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may

be

delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media
Unsuitable extinguishing media
Specific hazards arising from the chemical
Special protective equipment and
precautions for firefighters
Fire-fighting equipment/instructions
Specific methods

General information

Water fog. Foam. Dry chemical powder. Carbon Dioxide (CO2) Do not use water jet as an extinguisher, as this will spread fire. During fire, gases hazardous to health may be formed. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respiratorif there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Collect dust using a vacuum cleaner equipped with HEPA filter.

Methods and materials for containment and cleaning up

Large spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.

Small spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for reuse. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or into the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not get into eyes. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personnel protective equipment. Wash hands thoroughly after handling. Observe food industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values Appropriate engineering controls No biological exposure limits noted for the ingredient(s). Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If material is ground, cut, or used in any operation which may create dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Eye wash facilities must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

Hand protection

Other

Respiratory protection

Thermal hazards

Wear safety glasses with side shields (or goggles) and a face shield.

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Wear suitable protective clothing.

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding exposure limits.

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Odor

Physical state Solid
Form Powder
Color Light brown
No characteristic
eshold Not available

Odor threshold Not available pH Not available

Melting point/freezing point 1167.08°F (630.6°C) estimated /999°F (537.22°C)

Initial boiling point and boiling range

Flash point

Evaporation rate

Flammability (solid, gas)

Not available

Not available

Not available

Upper/lower flammability or explosive limits

Flammability limit – lower (%)

Flammability limit – upper (%)

Explosive limit – lower (%)

Explosive limit – upper (%)

Not available

Not available

Not available

Vapor pressure 0.00001 hPa estimated

Vapor density Not available Relative density Not available

Solubility(ies)

Solubility (water)

Partition coefficient (n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available

Not available

Not available

Other information

Density 21.91 lbs./gal. estimated #

Explosive properties Not explosive

Flammability class Combustible IIIB estimated

Oxidizing properties Not oxidizing Specific gravity 2.63 estimated

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use,

storage, and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.

Skin contact Dust or powder may irritate the skin.

Causes severe eye damage Eye contact Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical

Severe eye irritation. Dusts may irritate the respiratory tract, skin and and toxicological characteristics eyes. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Permanent eye damage including blindness could

result.

Information on toxicological effects

Harmful if swallowed Acute toxicity

Components Species Test Results

CARBONIC ACID SODIUM SALT (CAS 497-19-8)

Acute Inhalation

LD50 Guinea pig 0.8 mg/l, 2 Hours

Inhalation

LC50 Mouse 1.2 mg/l, 2 Hours

Inhalation

LD50 Rat 2.3 mg/l, 2 Hours

Inhalation

4090 mg/kg LD50 Rat

GLYCINE, ETHANEDIYLBIS[N-(CARBOXYMETHYL)- SODIUM SALT (CAS 64-02-6)

Acute

LD50 >2000 mg/kgRat

Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Causes serious eye damage. Serious eye damage/eye irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer

Skin sensitization This product is not expected to cause skin sensitization. No data available to indicate product or any components present at Germ cell mutagenicity

greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH,

NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental

Not classified.

Not classified.

effects.

Specific target organ toxicity-single exposure Specific target organ toxicity-repeated exposure

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However,

this does not exclude the possibility that large or frequent

spills can

Have a harmful or damaging effect on the environment.

Components Species Test Results

CARBONIC ACID SODIUM SALT (1.2) (CAS 497-19-8)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 1 56.6-298.9 mg/l, 48 hours

Fish LC50 Bluegill (Lepomis macrochirus) 300 mg/l, 96 hours

GLYCINE, N,N'-1,2-ETHANEDIYLBIS[N-(CARBOXYMETHYL)-SODIUM SALT (1 (CAS 64-02-6)

Aquatic

LC50 Bluegill (Lepomis macrochirus) 472-500 mg/l, 96 hours

*Estimates for product may be based on additional component data not shown.

Persistence and degradability No data available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion,

photochemical ozone creation potential, endocrine disruption, global

warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste

disposal site. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the

producer, and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or

liners may retain some product residues. This material and its container

must be disposed of in a safe manner (see Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label

warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

DOT information on packaging may be different from that listed.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1 200.

One or more components are not listed on TSCA.

TSCA Section 12 (b) Export Notification (40 CFR 707, subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not Listed

SARA 304 Emergency Release Notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard Yes
Delayed Hazard No
Fire Hazard No
Pressure Hazard No
Reactivity Hazard No

SARA 302 Extremely hazardous substance Not Listed SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting) Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112 ® Accidental Release Prevention (40 CFR 68.130) Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

US state regulations

US. California Controlled Substances. CA Dept. of Justice (CA Health and Safety Code Section 11100)

Not listed

US. Massachusetts RTK – Substance List

Not regulated

US. New Jersey Worker and Community Right-to-Know Act

Not listed

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed

US. Rhode Island RTK

Not regulated

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not

known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or Region	Inventory Name On In	ventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (ACS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECS)	C) No
Europe	European Inventory of Existing Commercial Chemical	No
	Substances (EINECS)	
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENC)	S) No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substance	s No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more of the components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue Date	11-30-2015	
Version #	04	
HMIS Ratings	Health:	3
	Flammability:	0
	Physical hazard:	0
NFPA Ratings	Health:	3
	Flammability:	0
	Instability:	0

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Revision Information Other information, including date of preparation or last revision:

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