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SAFETY DATA SHEET

Issue Date: 27 October 2015

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name:

COMPLETE TREAT S

Product Description:

3 IN 1 SOFT WATER CORROSION INHIBITOR

Other Means of Identification

Product #

A1960

Synonyms

None

Details of the Supplier of the Safety Data Sheet

Company Name

CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency Telephone Number

Emergency Telephone

INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification (GHS-US)

Met. Corr. 1 H290

Skin Corr. 1A H314

*Full text of H-phrases: see section 16

GHS-US Labeling

Hazard pictograms (GHS-US):



Signal Word (GHS-US): Danger

Hazard Statements (GHS-US):

May be corrosive to metals

Causes severe skin burns and eye damage

Precautionary statements (GHS-US):

Keep only in original container

Do not breathe mist, spray

Wash thoroughly after handling

Wear eye protection, protective clothing, protective gloves

If swallowed: rinse mouth. Do NOT induce vomiting

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

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

Immediately call a doctor, a POISON CENTER

Wash contaminated clothing before reuse

Absorb spillage to prevent material damage

Store locked up

Store in corrosive resistant container with a resistant inner liner

Dispose of contents/container to comply with local/regional/national/international regulations.

Other hazards: No additional information available

Unknown acute toxicity (GHS-US): Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable

*Full text of H-phrases: see section 16

Mixture:

Name	Product identifier	%	Classification (GHS-US)
potassium hydroxide, 45%=<conc<50%, aqueous solutions	(CAS No) 1310-58-3	1-5	Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314
2-(diethylamino)ethanol	(CAS No) 100-37-8	1-5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314
sodium metabisulphite	(CAS No) 7681-57-4	1-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
tetrapotassium pyrophosphate, anhydrous	(CAS No) 7320-34-5	1-5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

4. FIRST AID MEASURES

Description of first aid measures:

First-aid measures general:

If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact:

Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact:

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

First-aid measures after ingestion:

Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries:

Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation:

May cause respiratory irritation. Possible laryngeal spasm/oedema.

Symptoms/injuries after skin contact:

Caustic burns/corrosion of the skin.

Symptoms/injuries after eye contact:

Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion:

May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Cramps.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media:

All extinguishing media allowed.

Special hazards arising from the substance or mixture:

Reactivity:

Upon combustion: CO and CO₂ are formed.

Advice for firefighters:

Firefighting instructions:

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

General measures:	Isolate from fire, if possible, without unnecessary risk.
For non-emergency personnel:	
Protective equipment:	Protective goggles. Gloves. Protective clothing.
Emergency procedures:	Evacuate unnecessary personnel. Avoid contact with skin, eyes, and clothing. Ventilate spillage area.
For emergency responders:	
Protective equipment:	Equip cleanup crew with proper protection.
Emergency procedures:	Stop leak if safe to do so. Stop release. Ventilate area.

Environmental precautions:

Avoid release to the environment. Prevent soil and water pollution.

Methods and material for containment and clean up:

For containment:	Contain released substance, pump into suitable containers.
Methods for cleaning up:	This material and its container must be disposed of in a safe way, and as per local legislation.

Reference to other sections:

No additional information available.

7. HANDLING AND STORAGE

Precautions for safe handling:

Precautions for safe handling: Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities:

Technical measures:	Comply with applicable regulations. Add ALWAYS product to water for dilution/mixture. Never add water to this product.
Storage conditions:	Keep container closed when not in use.
Incompatible products:	Acids.
Heat-ignition:	KEEP SUBSTANCE AWAY FROM: (strong) acids
Storage area:	Meet the legal requirements. Store in a dry area. Store in a cool area.
Special rules on packaging:	Meet the legal requirements. Keep only in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

2-(diethylamino)ethanol (100-37-8)		
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	ACGIH STEL (ppm)	2 ppm
potassium hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)		
ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³

Exposure controls:

Personal protective equipment: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state	Liquid
Appearance	clear. brown. Liquid.
Odor	slight ammonia.
Odor threshold	No data available
pH	13 - 14
Melting point	No data available
Freezing point	No data available
Boiling point	No data available

Flash point	> 200 °F Closed Cup
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20 C	No data available
Specific gravity/density	1.12 g/ml
Solubility	Soluble in water.
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
VOC content	ND

10. STABILITY AND REACTIVITY

Reactivity:

Upon combustion: CO and CO₂ are formed.

Chemical stability:

Stable under normal conditions.

Possibility of hazardous reactions:

Refer to reactivity.

Conditions to avoid:

No additional information available.

Incompatible materials:

Acids.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity: Not classified

2-(diethylamino)ethanol (100-37-8)	
LD50 oral rat	1320 mg/kg (Rat)
LD50 dermal rabbit	1109 mg/kg (Rabbit)
potassium hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
LD50 oral rat	273 mg/kg (Rat)
ATE CLP (oral)	273.000 mg/kg body weight
sodium metabisulphite (7681-57-4)	
ATE CLP (oral)	500.000 mg/kg body weight
tetrapotassium pyrophosphate, anhydrous (7320-34-5)	
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)

Skin corrosion/irritation:	Causes severe skin burns and eye damage pH: 13 - 14
Serious eye damage/irritation:	Not classified. pH: 13 - 14
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.

Reproductive toxicity:	Not classified.
Specific target organ toxicity (single exposure):	Not classified.
Specific target organ toxicity (repeated exposure):	Not classified.
Aspiration hazard:	Not classified.
Symptoms/injuries after inhalation:	May cause respiratory irritation. Possible laryngeal spasm/oedema.
Symptoms/injuries after skin contact:	Caustic burns/corrosion of the skin.
Symptoms/injuries after eye contact:	Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
Symptoms/injuries after ingestion:	May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Cramps.

12. ECOLOGICAL INFORMATION

Toxicity:

2-(diethylamino)ethanol (100-37-8)	
LC50 fish 1	100 - 220 mg/l (96 h; Leuciscus idus)
EC50 Daphnia 1	83.6 mg/l (48 h; Daphnia magna)
LC50 fish 2	1780 mg/l (96 h; Pimephales promelas)
Threshold limit algae 1	30 mg/l (72 h; Scenedesmus subspicatus)
potassium hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
LC50 fish 1	28.6 mg/l (24 h; Pisces; Pure substance)
LC50 other aquatic organisms 1	100 - 1000 mg/l (96 h)
LC50 fish 2	80 mg/l (96 h; Gambusia affinis; Pure substance)
Threshold limit other aquatic organisms 1	100 - 1000,96 h
tetrapotassium pyrophosphate, anhydrous (7320-34-5)	
LC50 fish 1	> 750 mg/l (48 h; Leuciscus idus)

Persistence and degradability:

2-(diethylamino)ethanol (100-37-8)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.002 g O /g substance
Chemical oxygen demand (COD)	0.76 g O /g substance
potassium hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
tetrapotassium pyrophosphate, anhydrous (7320-34-5)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Bioaccumulative potential:

2-(diethylamino)ethanol (100-37-8)	
Log Pow	0.21 - 0.46
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
potassium hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
Bioaccumulative potential	Not bioaccumulative.
tetrapotassium pyrophosphate, anhydrous (7320-34-5)	
Bioaccumulative potential	Bioaccumulation: not applicable.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

Department of Transportation (DOT)

Transport document description: UN3266 Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide), 8, II
UN-No.(DOT): UN3266
Proper Shipping Name (DOT): Corrosive liquid, basic, inorganic, n.o.s.
Transport hazard class(es) (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT): 8 - Corrosive
Packing group (DOT): II - Medium Danger
DOT Packaging Non Bulk (49 CFR 173.xxx): 202
DOT Packaging Bulk (49 CFR 173.xxx): 242
DOT Symbols: G - Identifies PSN requiring a technical name.
DOT Special Provisions (49 CFR 172.102): B2,IB2,T11,TP2,TP27
DOT Packaging Exceptions (49 CFR 173.xxx): 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 175.27): 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 30L
DOT Vessel Stowage Location: B
DOT Vessel Stowage Other: 40 - Stow "clear of living quarters", 52 - Stow "separated from" acids

Additional information:

Other information: No supplementary information available.

ADR:

No additional information available.

Transport by sea:

No additional information available.

Air Transport:

No additional information available.

15. REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

potassium hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
Not listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and /or reproductive toxicity.

16. OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H226	Flammable liquid and vapor
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed

H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard: 0 - Materials that will not burn.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water

Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendee or users assume all risks associated with the use of this material.