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SAFETY DATA SHEET

Issue Date: 19 October 2015 **Revision Date:** 19 October 2015 **Version 1**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: **SEIZE AWAY**

Product Description: **HIGH TEMP ANTI-SEIZE COMPOUND**

Other Means of Identification

Product # 79008, 79012

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)

Flam. Gas 1	H220
Flam. Aerosol 1	H222
Eye Irrit. 2A	H319
Asp. Tox. 1	H304

*Full text of H-phrases: see section 16

GHS-US Labeling

Hazard pictograms (GHS-US):

Signal Word (GHS-US): Danger

Hazard Statements (GHS-US):

Extremely flammable gas
Extremely flammable aerosol
May be fatal if swallowed and enters airways
Causes serious eye irritation

Precautionary statements (GHS-US):

Keep away from heat, hot surfaces, open flames, sparks. - No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container. Do not pierce or burn, even after use
Wash thoroughly after handling
Wear eye protection, face protection
If swallowed: Immediately call a doctor, a POISON CENTER
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Do NOT induce vomiting
If eye irritation persists: Get medical advice/attention.

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
Eliminate all ignition sources if safe to do so.
Store in a well-ventilated place.
Store locked up
Protect from sunlight. Do not expose to temperatures exceeding 50 C/ 122 F.
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)
Butane	(CAS No) 106-97-8	10-20	Flam. Gas 1, H220
Naphtha (petroleum), light alkylate, Low boiling point modified naphtha, [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C3 through C5. If consists of predominantly branched chain saturated hyrocarbons having carbon numbers predominantly in the range of C7 through C10 and boiling in the range of approximately 90 C to 160 C (194 F to 320 F).]	(CAS No) 64741-66-8	10-20	Not classified
Acetone, propan-2-one, propanone	(CAS No) 67-64-1	10-20	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Copper	(CAS No) 7440-50-8	10-20	Not classified.
Propane	(CAS No) 74-98-6	10-20	Flam. Gas 1, H220 Compressed gas, H280
Triethanolamine	(CAS No) 102-71-6	2.5-10	Not classified
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	(CAS No) 64742-47-8	2.5-10	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Aluminum Chips	(CAS No) 7429-90-5	0.1-1	Not classified

4. FIRST AID MEASURES

Description of first aid measures:

First-aid measures general: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention.

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. For minor skin contact, avoid spreading material on unaffected skin.

First-aid measures after eye contact: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth with water. Immediately call a poison center or doctor/physician. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries: Causes serious eye irritation. Irritation of mucous membranes.

Symptoms/injuries after inhalation: Irritation of the nasal mucous membranes.

Symptoms/injuries after skin contact: Contact during a long period may cause light irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways.

Indication of any immediate medical attention and special treatment needed:
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Alcohol-resistant foam. Water. Sand. Carbon dioxide. Dry powder.

Unsuitable extinguishing media: Do not use a water jet since it may cause the fire to spread.

Special hazards arising from the substance or mixture:

Fire hazard: Under fire conditions closed containers may rupture or explode. Extremely flammable aerosol.

Explosion hazard: Bursting aerosol containers may be propelled from a fire at high speed. Contains gas under pressure; may explode if heated.

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Advice for firefighters:

Firefighting instructions: Cool tanks/drums with water spray/remove them into safety. Move containers away from the fire area if this can be done without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Exercise caution when fighting any chemical fire. In case of fire and/or explosion do not breathe fumes. Use water spray or fog for cooling exposed containers.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Complete protective clothing.

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: Do not enter without an appropriate protective equipment. DO NOT touch spilled material. Ventilate the area thoroughly, especially low lying areas (basements, work pits, etc.)

Emergency procedures: Keep upwind. Evacuate unnecessary personnel.

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. Advise local authorities if considered necessary. Stop leak if safe to do so. Do not contaminate water with the product or its container. Avoid discharge to the environment.

Methods and material for containment and clean up:

For containment: Eliminate every possible source of ignition. Prevent the product from entering drains or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if safe to do so. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Collect spillage.

Methods for cleaning up: Clean thoroughly. Following product recovery, flush area with water. 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:

Additional hazards when processed: Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not puncture, incinerate or crush. In use, may form flammable vapor-air mixture. Keep away from heat, sparks and flame.

Precautions for safe handling: Do not re-use empty containers. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Do not breathe gas/vapor/aerosol. Do not cut, weld, solder, drill, grind, or expose containers to heat flame, sparks or other sources of ignition. Do not discharge the waste into the drain. Do not get in

eyes, on skin, or on clothing. Do not smoke while handling product. Do not spray on a naked flame or any incandescent material. Ensure good ventilation or the work station. Ground/bond container and receiving equipment. Intentional misuse by deliberately concentrating and inhaling may be harmful or fatal. Keep out of reach of children. Prevent the build-up of electrostatic charge. Use only outdoors or in a well-ventilated area.

Hygiene measures: Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

Technical measures: Comply with applicable regulations. Do not puncture, incinerate or crush. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container. Provide local exhaust or general room ventilation.

Storage conditions: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 C/122 F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage area: Aerosol 2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Triethanolamine (102-71-6)		
ACGIH	ACGIH TWA (mg/m3)	5 mg/m3
ACGIH	Remark (ACGIH)	Eye & skin irr
Butane (106-97-8)		
ACGIH	ACGIH TWA (ppm)	1000 ppm
ACGIH	ACGIH STEL (ppm)	1000 ppm
Acetone, propan-2-one, propanone (67-64-1)		
ACGIH	ACGIH TWA (ppm)	250 ppm
ACGIH	ACGIH STEL (ppm)	500 ppm
ACGIH	Remark (ACGIH)	Eye irr; CNS impair, BEI
Aluminum Chips (7429-90-5)		
ACGIH	ACGIH TWA (mg/m3	1 mg/m3
ACGIH	Remark (ACGIH)	Pneumoconiosis; LRT irr
Propane (74-98-6)		
ACGIH	ACGIH TWA (ppm)	1000 ppm
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

Exposure controls:

Appropriate engineering controls: Ensure good ventilation of the work station. 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. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state	Gas
Appearance	Aerosol. purple.
Odor	characteristic
Odor threshold	No data available
pH	6-7
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	-156 F Propellant extimated
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	0.955 g/ml
Solubility	No data available
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

10. STABILITY AND REACTIVITY

Reactivity:
The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability:
Risk of ignition. Stable under normal conditions.

Possibility of hazardous reactions:
Hazardous polymerization does not occur.

Conditions to avoid:
Exposure to air. Heat. Open flame. Sparks.

Incompatible materials:
Strong oxidizing agents. Peroxides. Oxygen. Fluorine. Chlorine. Phenols and halogenated phenols. Nitrates.

Hazardous decomposition products:
Nitrogen oxides. Phosphorus oxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity: Not classified.

Triethanolamine (102-71-6)	
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 6400 mg/kg bodyweight; Rat)
LD50 dermal rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; > 2000 mg/kg bodyweight; Rabbit)
Hydrocarbons, C11-C14, n-alkanes, cyclics, < 2% aromatics (64742-47-8)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Rabbit; Literature)

Skin corrosion/irritation: Not classified
pH: 6-7

Serious eye damage/irritation: Causes serious eye irritation.
pH: 6-7

Respiratory or skin sensitization: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified

Triethanolamine (102-71-6)	
IARC group	3 - Not Classifiable

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation: Irritation of the nasal mucous membranes.

Symptoms/injuries after skin contact: Contact during a long period may cause light irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.
Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways.
Likely routes of exposure: Skin and eye contact; inhalation; ingestion.

12. ECOLOGICAL INFORMATION

Toxicity:

Triethanolamine (102-71-6)	
LC50 fish 1	> 10000 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 1	2038 mg/l (24 h; Daphnia magna; Locomotor effect)
LC50 fish 2	450-1000 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	609.88 mg/l (48 h; Ceriodaphnia dubia)
TLM fish 1	100-1000, Pisces
TLM other aquatic organisms 1	100-1000
Threshold limit algae 1	1.8-715, 168 h; Scenedesmus quadricauda
Threshold limit algae 2	19-47, 168 h; Microcystis aeruginosa
Hydrocarbons, C11-C14, n-alkanes, cyclics, < 2% aromatics (64742-47-8)	
LC50 fish 1	>100 mg/l (Pisces)
EC50 Daphnia 1	> 100 mg/l (Invertebrata)
Threshold limit algae 1	> 100 mg/l (Algae)
Aluminum Chips (7429-90-5)	
LC50 fish 1	0.12 mg/l Oncorhynchus mykiss (rainbow trout)

Persistence and degradability:

Triethanolamine (102-71-6)	
Persistence and degradability	Readily biodegradable in water. Highly mobile in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.02 gO2/g substance
Chemical oxygen demand (COD)	1.50 g O2/g substance
ThOD	2.04 g O2/g substance
BOD (% of ThOD)	0.02% ThOD
Hydrocarbons, C11-C14, n-alkanes, cyclics, < 2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable in water. Absorbs into the soil.

Bioaccumulative potential:

Triethanolamine (102-71-6)	
BDF fish 1	< <0.4-<3.9, 42 days; Cyprinus carpio
Log Pow	-2.3 - 1.34 (Weight of evidence approach; -1; QSAR)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500)
Hydrocarbons, C11-C14, n-alkanes, cyclics, < 2% aromatics (64742-47-8)	
Log Pow	6 - 8.2
Bioaccumulative potential	High potential for bioaccumulation (Log Kow >5)

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:
Waste disposal recommendations: Dispose of contents/container to comply with local/national regulations.

14. TRANSPORT INFORMATION

Department of Transportation (DOT)
Transport document description: UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1
UN-No.(DOT): UN1950
Proper Shipping Name (DOT): Aerosols
flammable, (each not exceeding 1L capacity)
Transport hazard class(es) (DOT): 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT): 2.1 - Flammable gas
Marine pollutant: Yes (IMDG only)
DOT Packaging Non Bulk (49 CFR 173.xxx): None
DOT Packaging Bulk (49 CFR 173.xxx): None
DOT Special Provisions (49 CFR 172.102): N82
DOT Packaging Exceptions (49 CFR 173.xxx): 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 175.27): 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 150 kg

DOT Vessel Stowage Location: A
DOT Vessel Stowage Other: 25 - Shade from radiant heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials.

Additional information:
Other information: This product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.306.

ADR:
No additional information available.

Transport by sea:
UN-No. (IMDG): UN1950
Proper Shipping Name (IMDG): Aerosols
Class (IMDG): 2.1 - Flammable gasses

Air Transport:
UN-No. (IMDG): UN1950
Proper Shipping Name (IMDG): Aerosols, flammable
Class (IMDG): 2.1 - Gasses: Flammable

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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Aluminum Chips	CAS No. 7429-90-5	0.1-1
Copper	CAS No. 7440-50-8	10-20

Butane (106-97-8)	
Not listed on SARA Section 313 (Specific toxic chemical listings)	
Acetone, propan-2-one, propanone (67-64-1)	
Not listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of LIsts)	5000 lb
Aluminum Chips (7429-90-5)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
Copper (7440-50-8)	
Listed on SARA Section 313 (Specific toxic chemical listings	
RQ(Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
Propane (74-98-6)	
Not listed on SARA Section 313 (Specific toxic chemical listings	

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:

Asp. Tox. 1	Aspiration hazard Category 1
Compressed gas	Gases under pressure Compressed gas
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Aerosol 1	Flammable aerosol Category 1

Flam. Gas 1	Flammable gases Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq 4	Flammable liquids Category 4
STOT RE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated
H304	May be fatal if swallowed and enters airways
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

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: 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily

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. If 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.