SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER: 1155101

PRODUCT NAME: ANTI-SEIZE II

PRODUCT DESCRIPTION: Aerosol Copper-Based Anti-Seize

COMPANY INFORMATION: **PRO CHEM, INC.**
1475 Bluegrass Lakes Parkway
Alpharetta, GA 30004

COMPANY PHONE: 1-800-241-8180

EMERGENCY TELEPHONE: 1-800-535-5053

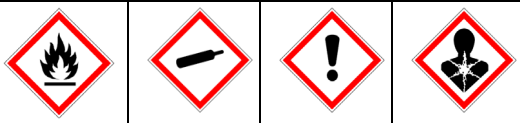
INFOTRAC: 1-800-535-5053

2. Hazards Identification

GHS CLASSIFICATION:
Flammable Aerosol: Category 1
Gases Under Pressure: Liquefied Gas
Eye Irritant: Category 2A
Specific Target Organ Toxicity (Single Exposure): Category 3
Aspiration Hazard: Category 1

SIGNAL WORD:
DANGER

SYMBOL:



HAZARD STATEMENTS:
Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. This product contains the following percentage of chemicals of unknown toxicity**:** N/A

PRECAUTIONARY STATEMENTS:
Prevention: Keep away from heat, sparks, open flames and hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized Container: Do not pierce or burn, even after use. Wash hands thoroughly after handling. Wear eye protection.
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. Store in a well-ventilated place. IF SWALLOWED Immediately call a poison center or doctor. Do NOT induce vomiting.
Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.
Disposal: Dispose of contents and container in accordance with local, state and federal regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Not applicable.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
n-Butane	106-97-8	15-40%
Acetone	67-64-1	10-20%
Propane	74-98-6	5-15%
Heptane	142-82-5	5-10%
Distillates (petroleum), hydrotreated light	64742-47-8	5-10%

Trade Secret Information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

INGESTION:
Rinse mouth out with water. Do not induce vomiting unless directed by medical authority. Keep head below hips if vomiting occurs. Seek immediate medical attention. Aspiration hazard. Never give anything by mouth to an unconscious person.

INHALATION:
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

SKIN: IF ON SKIN: Wash with plenty of water. If skin irritation occurs: get medical attention.

ACUTE HEALTH HAZARDS:
Prolonged contact with skin may cause irritation. Causes eye irritation including redness, tearing, and pain. Inhalation of vapors may cause nausea, dizziness and drowsiness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

CHRONIC HEALTH HAZARDS:
Dermatitis may occur due to long-term irritation. May cause liver and kidney damage.

NOTE TO PHYSICIAN:
Treatment of overexposure should be directed at the control of symptoms and the clinical condition. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA:
Dry chemicals, carbon dioxide, water spray, alcohol-resistant foam.

UNSUITABLE EXTINGUISHING MEDIA:
Water spray/stream.

SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing and NIOSH approved SCBA with full facepiece operated in positive pressure or pressure demand. Use water mist to keep material cool in fire situations.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

EXTREMELY FLAMMABLE. Contents under pressure. Exposure to temperatures above 120°F may cause bursting. Keep away from heat, sparks, open flames and other sources of ignition. Cool containers with water spray but do not use as an extinguishing media. Rapid depolymerization can occur in a fire and produce flammable vapors. May depolymerize at temperatures above 392°F (200°C) with the production of extremely flammable butene monomers. Vapor may cause fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon, hydrogen chloride, hydrocarbons.

6. Accidental Release Measures

PERSONAL PROTECTIVE EQUIPMENT:

Refer to Section 8 for proper Personal Protective Equipment.

SPILL: Eliminate all sources of ignition. Wear appropriate personal protective equipment. Clean up using rag or use some noncombustible material like vermiculite, sand or earth. Prevent spill from entering sewers, storm drains and natural waterways. Place waste in proper containers for disposal. Dispose of in accordance with local, state and federal regulations. U.S. regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll-free number for the U.S. Coast Guard National Response Center is 800-424-8802.

WASTE DISPOSAL:

Dispose of in accordance with local, state and federal regulations. Do not dump in sewers.

RCRA STATUS:

Waste likely considered D001 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

7. Handling and Storage

HANDLING AND STORAGE:

Avoid contact with skin, eyes and clothing. Do not inhale mist or vapor. Wear proper personal protective equipment when using this product. Store in a cool, dry area. Keep away from heat, open flames, or other sources of ignition. Wash hands after use. Protect from sunlight. Store in a well ventilated area. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use. Do not use or store with strong oxidizers.

OTHER PRECAUTIONS:

Keep out of the reach of children. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health.

INCOMPATIBILITY:

Strong acids, strong alkalis, strong oxidizing agents, chemically active metals, such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium, concentrated nitric acid some plastics, rubbers, and coatings.

8. Exposure Controls / Personal Protection

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
n-Butane	Not established.	1000 ppm
Acetone	1000 ppm	250 ppm
Propane	1000 ppm	1000 ppm
Heptane	500 ppm	400 ppm
Distillates (petroleum), hydrotreated light	Not established.	Not established.

ENGINEERING CONTROLS / VENTILATION:

Local ventilation/exhaust may be needed in confined spaces.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses/goggles and chemical resistant gloves.

Eye/Face Protection: Safety glasses/goggles

Skin Protection: Chemical resistant gloves.

Respiratory Protection: Wear NIOSH/MSHA approved organic vapor respiratory protection if listed exposure limits (Section 8) are exceeded.

ADDITIONAL MEASURES:

Do not touch eyes when using this product. Wash hands thoroughly with soap and water after use.

9. Physical & Chemical Properties

Appearance:	Copper spray.	**Explosive Limit-Lower (%):**	Not determined.
Odor:	Solvent.	**Explosive Limit-Upper (%):**	Not determined.
Odor Threshold:	Not determined.	**Vapor Pressure (mm Hg):**	Not determined.
pH:	Not applicable.	**Vapor Density (AIR=1):**	Not determined.
Melting/Freezing Point:	Not determined.	**Relative Density (H20=1):**	0.87 - 0.89 @ 77°F (25°C)
Initial Boiling Point/Range:	Not determined.	**Solubility(ies):**	Not determined.
Flash Point:	Not determined.	**Partition Coeff(n-octanol/water) (K_{ow}):**	Not determined.
Evaporation Rate:	Not determined.	**Auto-Ignition Temp:**	Not determined.
Flammability(solid/gas):	Extremely Flammable Aerosol	**Decomposition Temp:**	Not determined.
Flammability Limit-lower (%):	Not determined.	**Viscosity:**	Not determined.
Flammability Limit-upper (%):	Not determined.		

10. Stability & Reactivity Information

REACTIVITY:

Certain plastics, rubber and coatings.

CHEMICAL STABILITY:

Stable.

POSSIBILITY OF HAZARDOUS REACTIONS:
None known.

CONDITIONS TO AVOID:
Temperatures greater than 122°F (50°C) and sources of ignition. Avoid incompatible materials.

INCOMPATIBLE MATERIALS:
Strong acids, strong alkalis, strong oxidizing agents, chemically active metals, such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium, concentrated nitric acid some plastics, rubbers, and coatings.

HAZARDOUS DECOMPOSITION PRODUCTS:
None known.

11. Toxicological Information

TOXICOLOGICAL INFORMATION:

n-Butane (106-97-8): LC_{50} (Inhalation, Rat, 4h) 30957 mg/m^3.
Acetone (67-64-1): LD_{50} (Oral, Rat) 5800 mg/kg; LD_{50} (Oral, Mouse) 3000 mg/kg; LD_{50} (Oral, Rabbit) 5340 mg/kg; LC_{50} (Inhalation, Rat, 8h) 50100 mg/m^3; LC50 (Inhalation, Mouse, 4h) 44,000 mg/m^3.
Propane (74-98-6): LC_{50} (Inhalation, Rat, 4h) 658 mg/L.
Heptane (142-82-5): LD_{50} (Oral, Rat) > 15000 mg/kg; LD_{50} (Dermal, Rabbit) > 3160 mg/kg; LC_{50} (Inhalation, Rat, 4h) 103 mg/L.
Distillates (petroleum), hydrotreated light (64742-47-8): LD_{50} (Oral, Rat) 5 g/kg; LD50 (Dermal, Rabbit) 2 g/kg; LC_{50} (Inhalation, Rat, 4h) 5 mg/L.
Copper (7440-50-8): LD_{50} (Oral, Rat) 300 - 500 mg/kg; LD_{50} (Dermal Rat) > 2000 mg/kg.

PRIMARY ROUTE OF ENTRY: Eyes, Ingestion, Inhalation, Skin

Eyes: Causes irritation, redness, tearing.
Ingestion: May cause gastrointestinal irritation, nausea, diarrhea, vomiting. Harmful if swallowed. Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia or edema.
Inhalation: May cause respiratory tract irritation, dizziness, headaches, drowsiness, unconsciousness.
Skin: May cause irritation, redness and dermatitis.

MEDICAL CONDITION AGGRAVATED:
Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure.

ACUTE HEALTH HAZARDS:
Prolonged contact with skin may cause irritation. Causes eye irritation including redness, tearing, and pain. Inhalation of vapors may cause nausea, dizziness and drowsiness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

CHRONIC HEALTH HAZARDS:
Dermatitis may occur due to long-term irritation. May cause liver and kidney damage.

CARCINOGENICITY:
OSHA: No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** CA Prop 65

12. Ecological Information

ECOTOXICITY:
This material is toxic to aquatic life.
Acetone (67-64-1): LC_{50} *(Oncorhynchus mykiss*, 96h) 5540 mg/L; EC50 (*Daphnia magna,* 48h) 6100 mg/L; EC_{50} (*Selenastrum quadricauda*, 8d) 7500 mg/L; EC_{50} (*Psuedomonas putida*, 16h) 1700 mg/L.
Heptane (142-82-5): EC_{50} (*Daphnia magna*, 48h) 1.50 mg/L.
Distillates (petroleum), hydrotreated light (64742-47-8): LC_{50} (Daphnia, 48h) > 1000 mg/L; EC50 (Algae, 72h) > 1000 mg/L.
Copper (7440-50-8): LC_{50} *(Pimephales promelas*, 96h) 0.0068 - 0.0156 mg/L; LC_{50} *(Oncorhynchus mykiss*, 96h, flow-through) 0.052 mg/L; LC_{50} (Lepomis machrochirus, 96h, static) 1.25 mg/L; LC_{50} (*Cyrinus carpio*, 96h, semi-static) 0.3 mg/L; LC_{50} (*Poecilia reticulata*, 96h, flow-through) 0.112 mg/L; EC_{50} (*Daphnia magna*, 48h, static) 0.03 mg/L; EC_{50} *(Pseudokirchneriella subcapitata*, 72h) 0.0426 - 0.0535 mg/L

PERSISTENCE AND DEGRADABILITY:
Component or components of this product are not biodegradable.

BIOACCUMULATIVE POTENTIAL:
Components in this mixture can bioaccumulate in aquatic organisms.

MOBILITY IN SOIL:
This product is mobile in soil.

OTHER ADVERSE EFFECTS:
None known.

13. Disposal Consideration

WASTE DISPOSAL:
Dispose of contents in accordance with federal, state and local regulations. Do not dump in sewers.

RCRA STATUS:
Waste likely considered D001 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

14. Transportation Information

DOT:
UN Number: UN1950
UN Proper Shipping Name: Aerosols, Ltd. Qty.
Transport Hazard Class(es):
Class: 2.1
Packing Group: Not applicable.

IATA: **AIR SHIPMENT**
UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable.
Transport Hazard Class(es):
Class: 2.1
Packing Group: Not applicable.

IMO/IMDG: SHIPPING BY WATER (VESSEL)

UN Number: UN1950
UN Proper Shipping Name: Aerosols
Transport Hazard Class(es):
Class: 2.1
Packing Group: Not applicable.
Environmental Hazards Water: Not applicable.

15. Regulatory Information

TSCA STATUS: All chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Acetone (67-64-1) Reportable Quantity = 5,000 pounds.
Copper (7440-50-8) (Code "&" = No Reportable Quantity Assigned to Copper Compounds).

SARA 311/312 HAZARD CATEGORIES:

Flammable (gases, aerosols, liquids, solids). Gas under pressure. Serious eye damage or eye irritation. Specific target organ toxicity (single or repeated exposure). Aspiration hazard.

SARA 313 REPORTABLE INGREDIENTS: Copper (7440-50-8).

CLEAN WATER ACT:

Acetone (67-64-1) is a hazardous substance. **Copper** (7440-50-8) is a priority pollutant and a toxic pollutant.

STATE REGULATIONS:

California Proposition 65: WARNING: This product can expose you to chemicals including Ethylene Oxide, which is known to the State of California to cause cancer, birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Acetone (67-64-1): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, DE, ID, ME, MA, MN, NJ, PA, RI, WA.
Heptane (142-82-5): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, IL, MA, NJ, PA, RI.
Copper (7440-50-8): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: NJ, PA, RI.

INTERNATIONAL REGULATIONS:

No information available.

VOLATILE ORGANIC COMPOUNDS (VOC): 39.82%

16. Other Information

N/A = Not Applicable; N/D = Not Determined

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.