

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: ANTI-SEIZE
PRODUCT NUMBER: 790
PRODUCT TYPE: AEROSOL
SUPPLIER'S NAME: CHEMPACE CORPORATION
SUPPLIER'S ADDRESS: 45 BURBANK TOLEDO, OH 43607
D.O.T. HAZARD CLASS: ORM-D

Chemical Family: N/A
Formula: Proprietary
Date Prepared: 6/16/94
Emergency Phone: 419/535-0101
Information Phone: 419/535-0101

HMS RATING: (Based on Aerosol Concentrate): 0-Minimal; 1-Slight; 2-Moderate; 3-Serious; 4-Extreme
HEALTH 1
FIRE 3
REACTIVITY 1
PERSONAL PROTECTION: B

SECTION II - INGREDIENTS

CHEMICAL NAME	GAS NO.	% WT	313/CHEM	PEL	SKIN	TWA-TLV	CARCINOGEN
Isoparaffinic Hydrocarbon	64742-48-9	20-40	NO	400 ppm	NO	400 ppm	NO
Copper Compound	7440-50-8	10-20	YES	N/E	NO	N/E	NO
Liquified Petroleum Gas	68476-85-7	40-60	NO	1000 ppm	NO	1000 ppm	NO

SECTION III - PHYSICAL DATA

DATA BELOW BASED ON AEROSOL CONCENTRATE ONLY:
Boiling Point: ~140°F
Vapor Density (Air=1): >1
Solubility in Water: Slight
pH: N/A
Specific Gravity (H₂O = 1) @ 75°F: 0.973

DATA BELOW BASED ON TOTAL CONTENTS:
Vapor Pressure of Can (psig @ 70°F): 45
Appearance/Odor : Gray Viscous Liquid, Solvent Odor

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point (OF CONCENTRATE ONLY): 76°F (T.O.C.)
Flammability as per USA Flame Projection Test: Extremely Flammable Spray
Extinguishing Media: Foam, CO₂, Dry Media

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

Unusual Fire and Explosion Hazards: Exposure to temperatures above 120°F may cause bursting.

SECTION V- REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will Not Occur
Incompatibility: Avoid contact with strong oxidizing agents
Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide

SECTION VI - STORAGE AND HANDLING

KEEP OUT OF THE REACH OF CHILDREN
 For Industrial & Institutional Use Only.
 Store in a cool, dry area away from heat or open flame.
 Do not store at temperatures above 120°F.
 NFPA Code 30B Rating: Level 3 Aerosol

SECTION VII - HEALTH AND FIRST AID

PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE

EYES: May cause slight irritation but does not injure eye tissue.
SKIN: Frequent or prolonged contact may cause irritation
INHALATION: Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the upper respiratory tract, dizziness, nausea, and other central nervous system effects
INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis. Minimal toxicity.

FIRST AID PROCEDURES

EYES: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.
SKIN: Wash with soap and water. If irritation persists seek medical attention.
INHALATION: Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.
INGESTION: Do not induce vomiting. Seek medical attention immediately.

SECTION VIII - SPECIAL PROTECTION DATA

RESPIRATORY PROTECTION: None needed for proper use in accordance with label directions.
VENTILATION: Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.
PROTECTIVE GLOVES: None needed for proper use in accordance with label directions. Use chemical resistant gloves if hand contact will be made.
EYE PROTECTION: None needed unless it is anticipated that a splash or sprayback will occur, then wear safety glasses.

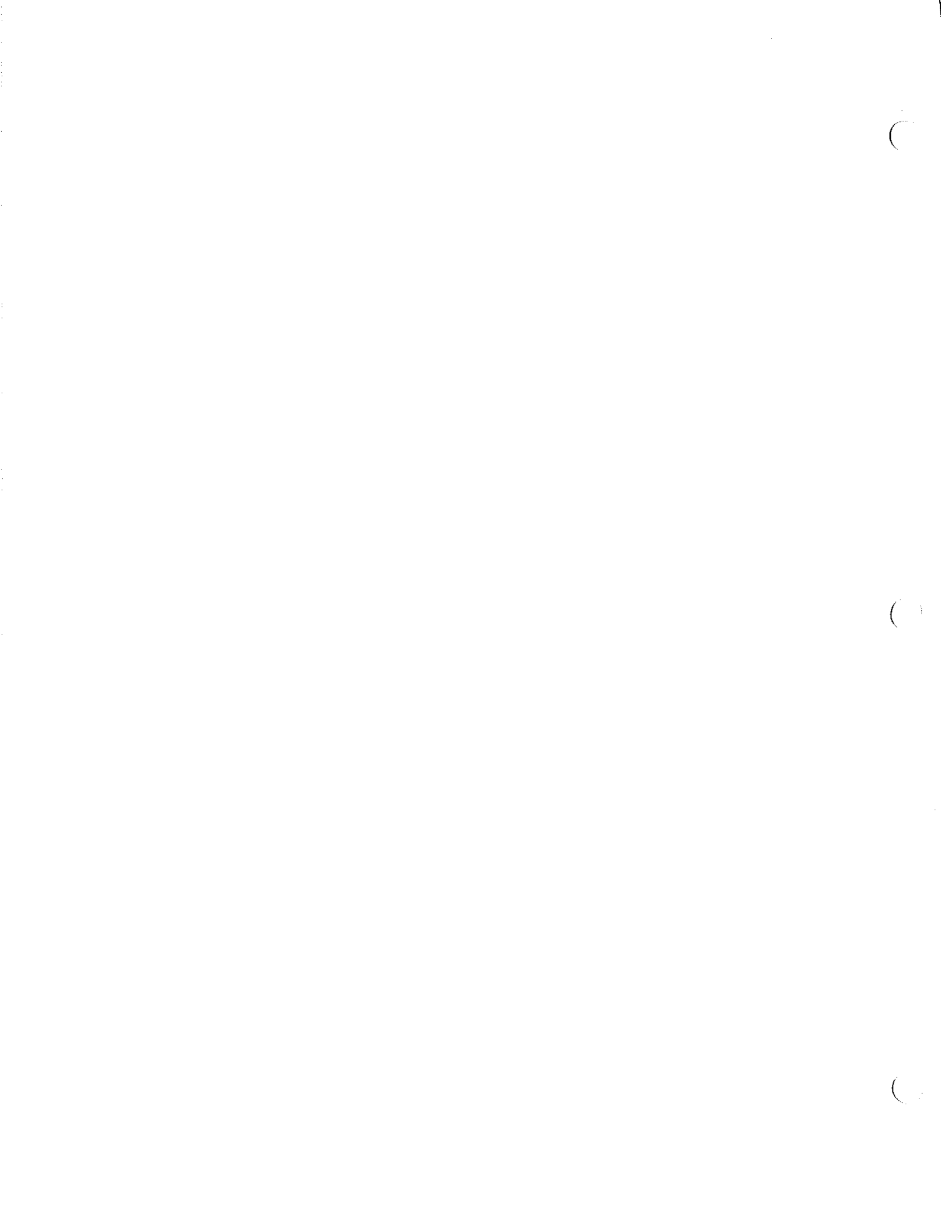
SECTION IX - SPILL OR LEAK PRECAUTIONS

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:
 Allow propellant to evaporate.
 Maintain local exhaust and adequate ventilation.
 No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.
WASTE DISPOSAL METHOD:
 Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.

N/A=NOT APPLICABLE N/E=NOT ESTABLISHED N/D=NOT DETERMINED <=LESS THAN >=MORE THAN

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

34



MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME: CHEMPACE CORPORATION
 ADDRESS: 437-535-0101
 TELEPHONE NUMBER: 437-535-0101
 CHEMICAL NAME AND SYNONYMS: 45 BURBANK DR. P.O. BOX 3484 TOLEDO, OHIO 43607
 TRADE NAME AND SYNONYMS: ANTI-SEIZE
 FORMULA: ANTI-SEIZE

SECTION II - HAZARDOUS INGREDIENTS

PAIRS, PRESERVATIVES, & SOLVENTS	%	TLV (UNITS)	ALLOYS AND METALLIC COATINGS	%	TLV (UNITS)
PIGMENTS		NA	BASE METALS		NA
CATALYST		"	ALLOYS		"
VEHICLE		"	METALLIC COATINGS		"
SOLVENTS		"	FILLER METAL		"
ADDITIVES		"	PLUS COATING OR CORE FLUX		"
OTHERS		"	OTHERS		"

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES

METHYLENE CHLORIDE CAS NUMBER 75-07-2 30-50% 500 TLV UNITS

NO SULFUR, LEAD OR MERCURY IN FORMULA

SECTION III - PHYSICAL DATA

BOILING POINT (°F.) AT 1.0136 BAR	VIGOROUS BOILING	SPECIFIC GRAVITY (H ₂ O=1) CONC. AT 75°F.	1.374
VAPOR PRESSURE (MM HG.) IN CAN PSIG AT 75°F	45	PERCENT VOLATILE BY VOLUME (%) IN CAN	57
VAPOR DENSITY (AIR=1)	NOT DETERMINED	EVAPORATION RATE (=1)	NOT DETERMINED
SOLUBILITY IN WATER	NEGLECTIBLE		
APPEARANCE AND ODOR	GRAY VISCIOUS LIQUID, MILD SWEETISH ODOR.		

ANTI-SEIZE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): CONCENTRATE NONE UP TO 120°F TAG OPEN CUP
 FLAMMABLE LIMITS: LEL, UEL
 EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CO₂
 SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 500 PPM

EFFECTS OF OVEREXPOSURE: EXCESSIVE PROLONGED INHALATION MAY RESULT IN DROWSINESS, HEADACHES, NAUSEA, EYE AND LUNG IRRITATION.

EMERGENCY FIRST AID PROCEDURES: INHALATION: REMOVE TO FRESH AIR. EYE & SKIN CONTACT: FLUSH WITH WATER. INGESTION: SEE PHYSICIAN IMMEDIATELY.

SECTION IV - REACTIVITY DATA

STABILITY: UNSTABLE ABOVE 120°F. STABLE ABOVE 120°F.

INCOMPATIBILITY (MATERIALS TO AVOID): (HAZARDOUS DECOMPOSITION PRODUCTS): ABNORMALLY HIGH TEMPERATURE POSSIBLE TRACE AMOUNTS OF PHOSGENE.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR CONDITIONS TO AVOID

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SOAK UP ON APPROPRIATE

ABSORBENT MATERIAL.

WASTE DISPOSAL METHOD: IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE)

VENTILATION LOCAL EXHAUST GENERAL IS ADEQUATE NONE REQUIRED AS LONG AS NOT USED IN SMALL CLOSED AREA.

PROTECTIVE GLOVES NONE UNLESS PROLONGED CONTACT MECHANICAL (GENERAL) SPECIAL OTHER

OTHER PROTECTIVE EQUIPMENT NONE UNLESS PROLONGED CONTACT EYE PROTECTION GOGGLES IF SPLASHING CONDITIONS EXIST.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING DO NOT STORE WHERE TEMPERATURES EXCEED 120° F.

OTHER PRECAUTIONS SEE LABEL.