



ANTI-SEIZE TECHNOLOGY
A.S.T. Industries, Inc.

H.M.I.S.	
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RED INSULATING VARNISH

STOCK # ('S): 17214

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION

MANUFACTURE: ANTI-SEIZE TECHNOLOGY

2345 N. 17th Ave.
FRANKLIN PARK, IL. 60131

TELEPHONE #: 847-455-2300

24 HOUR EMERGENCY: INFOTRAC 1-800-535-5053 or 352-323-3500

SECTION 2- COMPOSITION

	CAS #	PERCENT
ISOPROPYL ALCOHOL	67-63-0	3 - 8
XYLENE	1330-20-7	1 - 5
TOLUENE	108-88-3	5 - 10
ACETONE	67-64-1	20 - 30
GLYCOL ETHER EP	2807-30-9	1 - 5
PROPANE/BUTANE	74-98-6	15 - 20
n-BUTYL ACETATE	123-86-4	5 - 10
RED IRON OXIDE	1309-37-1	7 - 18

SECTION 3 – HAZARD IDENTIFICATION

HAZARD DESCRIPTION: IRRITANT

EXTREMELY FLAMMABLE

PHYSICAL DANGERS: HAS A NARCOTIZING EFFECT.

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR IN A PRESSURIZED CONTAINER. VAPORS MAY CAUSE

FLASH FIRE.

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES

CAN BE IRRITATING TO EYES

VAPORS MAY CAUSE DROWSINESS AND OR DIZZINESS

KEEP OUT OF REACH OF CHILDREN.

EFFECTS OF SHORT

TERM OVEREXPOSURE : VAPORS CAUSE IRRITATION TO THE EYES, NOSE, THROAT, SKIN AND CENTRAL NERVOUS SYSTEM. SYMPTOMS MAY INCLUDE DIZZINESS, THROAT IRRITATION, HEADACHE, FATIGUE, SWELLING OF EYES AND NAUSEA.

EFFECTS OF CHRONIC

OVEREXPOSURE: MAY CAUSE PERMANENT BRAIN AND CENTRAL NERVOUS SYSTEM DAMAGE. REPEATED OVEREXPOSURE CAN ALSO DAMAGE KIDNEYS, LUNGS, LIVER, HEART AND BLOOD. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

NFPA RATING (SCALE 0-4): HEALTH = 1, FIRE = 4, REACTIVITY = 3

HMIS RATING (SCALE 0 –4): HEALTH =2, FIRE = 4, PHYSICAL HAZARD = 3

SECTION 4 – FIRST AID MEASURES

SKIN: WASH WITH SOAP AND WATER, USING A NAIL BRUSH. PAY PARTICULAR ATTENTION TO FINGER NAILS AND OPEN WOUNDS.

EYES: FLUSH EYE WITH WATER FOR 15 MINUTES, LIFTING THE EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

INGESTION: NOT A LIKELY ROUTE OF EXPOSURE, DO NOT INDUCE VOMITING. USE A GASTRIC LAVAGE, AND CALL A POISON CONTROL CENTER OR A PHYSICIAN.

INHALATION: THE SOLVENTS AND/OR PROPELLANTS IN THIS PRODUCT MAY AFFECT THE RESPIRATORY TRACT OR CENTRAL NERVOUS SYSTEM. AVOID OVEREXPOSURE. DIZZINESS OR RESPIRATORY IRRITATION ARE SIGNS OF OVEREXPOSURE. SEEK FRESH AIR. OR FOLLOW OTHER STANDARD MEDICAL PRACTICES.

SECTION 5 - FIRE FIGHTING MEASURES

AEROSOL FLAMMABILITY: EXTREMELY FLAMMABLE

FLAMMABLE LIMITS: LEL: 1.0 UEL: 13.0

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: CANS MAY RUPTURE, BURST OR EXPLODE IN A FIRE. USE EXTREME CAUTION. WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILD UP. WEAR GOGGLES AND A SELF CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: CANS MAY RUPTURE OR BURST, RELEASING THEIR CONTENTS. VAPOR ACCUMULATION CAN FLASH OR EXPLODE IF IGNITED. OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL SAFETY

PRECAUTIONS: WEAR PROTECTIVE EQUIPMENT. KEEP UNPROTECTED PERSONS AWAY

SAFETY PRECAUTIONS: DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEMS OR GROUND WATER. INFORM APPROPRIATE AUTHORITIES IN CASE OF SEEPAGE INTO WATER COURSE OR SEWAGE SYSTEM.

MEASURES FOR CLEANING

AND COLLECTING: DO NOT FLUSH WITH WATER OR AQUEOUS CLEANING AGENTS. USE DILUTED CAUSTIC SOLUTION. SOAK UP SPILLS WITH INERT ABSORBENT MATERIAL. REFER TO SECTION 13 FOR DISPOSAL INFORMATION.

SECTION 7 - HANDLING AND STORAGE

FIRE AND EXPLOSION PROTECTION: DO NOT SPRAY ON AN OPEN FLAME OR ANY INCANDESCENT MATERIAL.

DO NOT SMOKE. PROTECT FROM ELECTROSTATIC DISCHARGE, UNTIL MATERIAL IS DRY.

STORAGE REQUIREMENTS: OBSERVE PRESSURIZED CONTAINER STORAGE REGULATIONS. CONSULT WITH YOUR LOCAL AUTHORITIES. KEEP AWAY FROM SOURCES OF HEAT AND DIRECT SUNLIGHT. DO NOT WAREHOUSE IN SUBFREEZING CONDITIONS.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE

74-98-6, **PROPANE** PEL: 1800mg/m3, 1000 ppm
REL: 1800mg/m3, 1000 ppm
TLV: 4508mg/m3, 2500 ppm

106-97-8, **n-BUTANE** REL: 1900 mg/m3, 800 ppm
TLV: 1900 mg/m3, 800 ppm

123-86-4, **n-BUTYL ACETATE**
PEL: 710mg/m3, 150 ppm
REL: SHORT TERM VALUE: 950mg/m3, 200 ppm
LONG TERM VALUE: 710mg/m3, 150 ppm
TLV: SHORT TERM VALUE: 950mg/m3, 200 ppm
LONG TERM VALUE: 710mg/m3, 150 ppm

67-63-0, **ISOPROPYL ALCOHOL**
PEL: 980 mg/m3, 400 ppm
REL: SHORT TERM VALUE: 1225 mg/m3, 500 ppm
LONG TERM VALUE: 980 mg/m3, 400 ppm
TLV: SHORT TERM VALUE: 984 mg/m3, 400 ppm
LONG TERM VALUE: 492 mg/m3, 200 ppm

1330-20-7, **XYLENE (MIX)**
PEL: 435 mg/m3, 100ppm
REL: SHORT TERM VALUE: 655mg/m3, 150 ppm
LONG TERM VALUE: 435 mg/m3, 100ppm
TLV: SHORT TERM VALUE: 651 mg/m3, 150 ppm
LONG TERM VALUE: 434 mg/m3, 100ppm

RESPIRATORY PROTECTION: NORMALLY NOT REQUIRED. AVOID BREATHING VAPORS. IN RESTRICTED AREAS, USE A LOCAL EXHAUST TO REMOVE VAPORS, AND MAINTAIN AIR QUALITY. IF TLV'S ARE ABOVE ACCEPTABLE LIMITS USE A SELF CONTAINED BREATHING APPARATUS.

PROTECTIVE GLOVES: NORMALLY NOT REQUIRED

EYE PROTECTION: SAFETY GLASSES WITH SIDE SPLASH SHIELDS ARE RECOMMENDED.

WORK/HYGIENIC PRACTICES: USE GOOD STANDARD PRACTICES WHEN USING THIS MATERIAL. DO NOT EAT OR SMOKE WHILE USING, AND THOROUGHLY WASH WITH SOAP AND WATER, USING A NAIL BRUSH AFTER USING

SECTION 9 - PHYSICAL PROPERTIES

BOILING POINT: -40F

MELTING POINT: DOES NOT APPLY

VAPOR DENSITY (AIR = 1): 2

EVAPORATION RATE (BUTYL ACETATE = 1) : > 1

VOC CONTENT: 0.49kg/L, 4.10 LB/gal

FLASH POINT: -19 C, (-2F)

SOLUBILITY IN WATER: NIL

REACTIVITY IN WATER: NONE

SPECIFIC GRAVITY: 0.8

PERCENT VOLATILE: 78

VOC AS WEIGHT %: 49.1, 422.4 g/l

AUTOIGNITION: NOT SELF IGNITING

APPEARANCE AND ODOR: OPAQUE RED LIQUID SPRAY, SOLVENT ODOR.

SECTION 10 – STABILITY AND REACTIVITY

CONDITIONS TO AVOID: DO NOT STORE IN TEMPERATURES OVER 120 F.
POSSIBILITY OF HAZARDOUS REACTIONS: NO DANGEROUS REACTIONS KNOWN.

SECTION 11- TOXICOLOGICAL INFORMATION

PRIMARY EFFECT ON THE SKIN: NO IRRITANT EFFECTS
PRIMARY EFFECT ON THE EYES: COULD BE IRRITATING.
SENSITIZATION: NO SENSITIZING AFFECTS KNOWN.

SECTION 12- ECOLOGICAL INFORMATION

OTHER INFORMATION: THIS PRODUCT DOES NOT CONTAIN ANY CHLOROFLOUROCARBONS (CFC'S), CHLORINATED SOLVENTS OR HEAVY METALS. NO OTHER INFORMATION IS AVAILABLE
AQUATIC TOXICITY: HARMFUL TO AQUATIC ORGANISMS.
HAZARDOUS FOR WATER, DO NOT EMPTY INTO DRAINS

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT PUNCTURE, INCINERATE, OR COMPACT. PARTIALLY EMPTY CANS MUST BE DISPOSED OF RESPONSIBLY. DO NOT HEAT OR CUT CONTAINERS WITH ELECTRIC OR GAS TORCH. DO NOT TEMPER WITH VALVE.
RECOMMENDATIONS: EMPTY CANS SHOULD BE RECYCLED.

SECTION 14 – TRANSPIRATION INFORMATION

SHIPMENT BY LAND: CONSUMER COMMODITY, ORM-D

SHIPMENT BY WATER: AEROSOL, 2, UN 1950, LTD QTY

SHIPMENT BY AIR: AEROSOLS, FLAMMABLE, 2.1, UN 1950, LTD QT.
PACKAGING INSTRUCTION Y203 APPLIES TO THESE SHIPMENTS

Canadian WHMIS Classification: NOT REGULATED

Hazard Class: FLAMMABLE, AEROSOL

SECTION 15 – REGULATIONS

SARA SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES)

NO INGREDIENTS LISTED

SARA SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS)

1330-20-7, XYLENE

TSCA: ALL INGREDIENTS ARE LISTED

PROPOSITION 65, CHEMICALS KNOWN TO CAUSE CANCER

108-88-3, TOLUENE

100-41-4, ETHYL BENZENE (TRACE AMOUNT CONTAINED IN XYLENE)

CANADIAN WHMIS: CLASS A, B5- FLAMMABLE AEROSOL

EPA: XYLENE, GROUP 3

IARC: ISOPROPYL ALCOHOL GROUP 3, XYLENE GROUP 3

ACGIH TLV: XYLENE, GROUP A4

NIOSH: NONE OF THE INGREDIENTS IS LISTED

USDA (US DEPARTMENT OF AGRICULTURE): THIS PRODUCT WAS MANUFACTURED TO CONFORM TO THE USDA FOOD SAFETY AND INSPECTION SERVICE PERFORMANCE STANDARDS. THESE STANDARDS INCLUDE, BUT ARE NOT LIMITED TO, THE ABILITY OF THIS PRODUCT TO BE SAFE FOR USE IN OFFICIAL MEAT AND POULTRY ESTABLISHMENTS, AND TO PERFORM WELL UNDER A DAILY REGIMEN OF THOROUGH CLEANING, CYCLICAL TEMPERATURE CHANGE, AND WET CONDITIONS.

SECTION 16 – OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS OBTAINED FROM THE USE OF THIS PRODUCT. THEREFORE, BECAUSE THE PRODUCT MAY BE USED UNDER CONDITIONS BEYOND OUR CONTROL, WE ASSUME NO LIABILITY FOR ITS USE.

DATE PREPARED: 1/20/2009

RED INSULATING VARNISH 16 PART ISO MSDS