MATERIAL SAFETY DATA SHEET *Product #4527*

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: #4527 Copper Weld Thru Primer
Date Printed: October 01, 2010
Product Use/Class: Weld Thru Primer

Supplier: International Epoxies & Sealers
30241 Commerce Drive
San Antonio, FL 33576
Information Phone: 1-800-451-7206

Emergency Telephone: INFOTRAC 1-800-535-5053
Outside the U.S. Call collect: 1-352-323-3500

2. COMPOSITION / INFORMATION ON INGREDIENTS

Item	Chemical Name	CAS Number	%
01	Dimethyl Ether	115-10-6	30-40
02	Methyl Acetate	79-20-9	20-30
03	2-Propanone	67-64-1	10-20
04	N-Butyl Acetate	123-86-4	10-20
05	Copper Powder	7440-50-8	1-10

******Exposure Limits ******

	ACGIH		OSHA		COMPANY	
Item	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	N.E.	N.E.	N.E.	N.E.	1000 PPM	YES
02	200 PPM	250 PPM	200 PPM	N.E.	N.E.	NO
03	500 PPM	750 PPM	1000 PPM	N.E.	N.E.	NO
04	150 PPM	200 PPM*	150 PPM	N.E.	N.E.	NO
05	1 MG/M3	N.E.	1 MG/M3	N.E.	N.E.	NO

(See Section 16 for abbreviation legend), * - Ceiling Value.

3. HAZARDOUS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: Harmful if inhaled. Causes eye irritation. Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Aspiration hazard. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. CONTENTS UNDER PRESSURE! MAY ENTER LUNGS AND CAUSE DAMAGE.

EFFECTS OF OVEREXPOSURE:

EYE CONTACT: Causes moderate to severe eye irritation. Moderately irritating to the eyes.

SKIN CONTACT: Causes skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INHALTION: Harmful if inhaled. Prolonged inhalation may be harmful. INHALING LARGE QUANTITIES OF MIST OR VAPORS MAY CAUSE SOME IRRITATION TO NOSE, THROAT, LUNGS. Gross overexposure may cause: Central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness. Irregular heart beat with a strange sensation in the chest, "heart thumping", apprehension, lightheadedness, feeling of fainting, dizziness, weakness, sometimes progressing to loss of consciousness and death. Suffocation, if air is displaced by vapors. Exposure to high doses may cause central nervous system depression (anesthetic-like effects). Doses which cause anesthetic-like effects may also cause adverse effects in liver, lungs and kidneys.

INGESTION: Ingestion is not considered to be a hazard encountered in normal industrial use. This material may be harmful or fatal if swallowed. Aspiration hazard. Depression of the central nervous system can occur.

CHRONIC HAZARDS: Overexposure may cause nervous system damage. Overexposure may cause lung damage. Repeated contact with skin may irritate pre-existing skin conditions.

PRIMARY ROUTES OF ENTRY: Skin contact. Skin absorption. Inhalation. Ingestion. Eye contact.

4. FIRST AID MEASURES

Ingestion: If swallowed, do not induce vomiting. Call physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, give oxygen. Get immediate medical attention.

Skin Contact: Wash with soap and large amounts of water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash contaminated clothing before re-use.
Eye Contact: Holding eyelids open, flush eyes with running water for 5 minutes. Remove contact lenses if wearing and flush open eyes with running water for at least 15 minutes. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point (Pensky-Martens C.C.):	-42°F
Lower Explosive Limit:	1.7%
Upper Explosive Limit:	18.0%
Auto ignition Temperature:	ND
Extinguishing Media:	Alcohol, foam, CO2, dry chemical, foam, water, fog

UNUSUAL FIRE OR EXPLOSION HAZARDS: Vapors may form explosive mixture with air. Vapors can travel to a source of ignition and flash back. Extremely Flammable. Material will readily ignite at room temperatures in the presence of an ignition source. “Empty” containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION – THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SPECIAL FIREFIGHTING PROCEDURES: Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Keep containers and surroundings cool with water spray. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use recommended personal protective equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Exposure Controls/Personal Protection Section) Do not flush into surface water or sanitary sewer system.

7. HANDLING AND STORAGE

AEROSOL LEVEL: 2

HANDLING: Wash thoroughly after handling. Ensure all equipment is electrically grounded before transfer operations. Use only in well-ventilated area.
STORAGE: Keep away from heat, sparks and flame. Keep from freezing. Keep container closed when not in use. KEEP OUT OF THE REACH OF CHILDREN! Do not store above 120°F (49°C). Do not spray into open flame or near other sources of ignition. Do not store in direct sunlight, puncture, crush or incinerate container.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminates to within their TLV's during the use of this product. Use explosion-proof ventilation equipment.
Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Skin Protection: Impervious gloves should be used.
Eye/Face Protection: Wear safety glasses or goggles with side shields.
Other Protective Equip: Standard industrial clothing standards should be followed.
Hygienic Practices: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range:	-13 to 262°F	Vapor Density:	Is heavier than air
Odor:	Solvent	Odor Threshold:	ND
Appearance:	Copper	Evaporation Rate:	Is faster than Butyl Acetate
Solubility in H2O:	Negligible	Specific Gravity:	0.8103
Freeze Point:	ND	pH @ 0.0%	NA
Vapor Pressure:	ND	Viscosity:	ND
Physical State:	Aerosol		

Coefficient of Water/Oil Distribution: ND
Volatile Organic Compounds (VOCS): 2.00 lbs/gal 239 grams/ltr
VOC, % (wt): 42.62%
MIR: WTP < 1.00

See Section 16 for abbreviation legend.

10. STABILITY AND REACTIVITY

Conditions To Avoid: ALL SOURCES OF IGNITIONJ, WELDING ARCS AND OPEN FLAME. Keep product away from temperatures in excess of 120°F (49°). Do not crush, puncture or incinerate container. Do not expose to direct sunlight or store where temperatures could exceed 120°F.
Stability: Stable under normal storage conditions.
Hazardous Polymerization: Will not occur under normal conditions.
Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, smoke, fumes.
Incompatibility: May react with oxygen and strong oxidizing agents such as chlorates, nitrates, peroxides, etc. Avoid contact with strong oxidizers.

11. TOXICOLOGICAL INFORMATION

Product LD50: >5800 mg/kg Product LC50: >390 ppm

Component Toxicological Information:

Chemical Name:	LD50	LC50
Dimethyl Ether	NE	308000 MG/M3/RAT
Methyl Acetate	6970 MG/KG/RAT	>16000 PPM/4H/RAT
2-Propanone	5800 MG/KG/RAT	50100 MG/M3/8H/RAT
N-Butyl Acetate	10768 MG/KG/RAT	390 PPM/4H/RAT
Copper Powder	ND	ND
Styrene/Butadiene Copolymer	N.E.	N.E.

12. ECOLOGICAL INFORMATION

No Information.

13. DISPOSAL CONSIDERATIONS

Recommended Methods Of Disposal: Dispose of according to Federal, State and Local regulations.

14. TRANSPORTATION INFORMATION

U.S. Dept. of Transportation Ground (49 CFR):

Proper Shipping Name:	Consumer Commodity
Hazard Class or Division:	ORM-D
DOT UN/NA Number:	
Packaging Group:	
DOT Exceptions:	

IMDG Shipping Information:

Proper Shipping Name:	Aerosols
IMDG Hazard Class:	2.1

Packing Group:
IMDG Shipping Information: UN1950
Flash Point, C: -41.1
IMDG Special Exemptions: Limited Quantity
IMDG Special Instructions:
Marine Pollutant: No

IATA Shipping Information:
IATA Proper Shipping Name: Aerosols, Flammable.
IATA Hazard Class: 2.1
IATA Exemptions: Limited Quantity

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
CERCLA – SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA SECTION 313: this product contains the following substances 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:

Chemical	CAS #	Wt/Wt % Is Less Than:
Copper Powder	7440-50-8	1-10

TOXIC SUBSTANCES CONTROL ACT: This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical	CAS #	Wt/Wt % Is Less Than:
No information is available		

U.S State Regulations:

NEW JERSEY RIGHT TO KNOW: No non-hazardous materials among the top five ingredients.
PENNSYLVANIA RIGHT TO KNOW: Styrene/Butadiene Copolymer, CAS #9003-55-8
CALIFORNIA PROPOSITION 65: No Proposition Chemicals exist in this product,

International Regulations:

Canadian WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.
Canadian WHMIS Class: No information available.

16. OTHER INFORMATION

HMIS RATINGS: Health: 2 Flammability: 3 Reactivity: 0

Legend: N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined

Prepared by: Technical Manager

DISCLAIMER: Some of the information presented is from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS may not be applicable.

END OF MSDS