

MATERIAL SAFETY DATA SHEET

4527 04/04/07

International Epoxies & Sealers
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San Antonio, FL 33576

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Product: 4527 Copper Weld-Thru Primer

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name 4527 Copper Weld-Thru Primer
Product Number 4527
Use: Copper Paint

2. IDENTIFICATION OF HAZARDS

Extremely flammable. Harmful by inhalation. Harmful in contact with skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances taking part in a percentage higher than the exemption limit and presenting a health and/or environment hazard, and/or with a Communitarian workplace exposure limit:

INGREDIENTS	CAS Nr	INTERVAL OF CONC.%	SYMBOL	VAPOR PRESSURE (20°C)(MMHg)	SARA 313 REPORT	EXPOSURE LIMITS			
						ACGIH		OSHA/ NIOSH	
						TWA	STEL	PEL	STEL
1. Petroleum gas	68512-91-4	25<c<50	F+	N/E	No	N/E	N/E	N/E	N/E
2. Xylene (mixture of isomers)	1330-20-7	10<c<25	Xn	6,7	Yes	100 ppm	150 ppm	100 ppm	150 ppm
3. Acetone	67-64-1	5<c<10	F Xi	266	No	500 ppm	750 ppm	1000 ppm	N/E

N/E = no evaluation results available at the time this MSDS was printed.

For more information on dangerous ingredients, see sections 8, 11, 12 and 16.

4. FIRST AID MEASURES

When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

By inhalation: Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.

By contact with the skin: Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.

By contact with eyes: Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.

By ingestion: In case of accidental swallowing, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

5. FIRE-FIGHTING MEASURES

Means of Extinction: In case of fire, use water spray, alcohol-resistant foam, dry chemical powder, carbon dioxide, sand. Do not use for extinguishing: direct water jet.

Specific risks: Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous decomposition products may be produced, such as: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

Fire-proof protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.

Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

6. ACCIDENTAL SPILLAGE MEASURES

Personal precautions: Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapors. For exposure controls and personal protection measures, see section 8.

Environmental precautions: Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sews, inform the appropriate authorities in accordance with local regulations.

Cleaning-up methods: Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Avoid use of solvents. Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.

7. HANDLING AND STORAGE

Handling precautions: Comply with the health and safety at work laws.

- General recommendations: Avoid any type of leakage or escape.
- Recommendations for the prevention of fire and explosion risks: Pressurised container. Protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.
- Flash point: -83°C -117°F Setflash
- Autoignition temperature: 460°C 860°F
- Recommendations for the prevention of toxicological risks: Avoid applying the product directly to people, animals, plants or foodstuffs. Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

Storage conditions: Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. Class of store: According to current legislation. Maximum storage period: 12 months. Temperature interval: min: 5°C 40°F, max: 35°C 95°F.

Osha Storage: 1A

- Incompatible materials: Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
- Conditions to avoid: Heat: Keep away from sources of heat. Light: Avoid direct contact with sunlight. Humidity: Avoid extreme humidity conditions.
- Type of packaging: According to current legislation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/CE

Occupational Exposure Limits	(TLV) AGCIH 2005				Year
	TWA ppm	mg/m3	STEL ppm	mg/m3	
Petroleum gas					Suffocating gas
Xylene (mixture of isomers)	100	434	150	651	A4 1996
Acetone	500	1188	750	1782	A4 1997

A4 - Non classified as carcinogenic in humans.

Occupational exposure controls, Directive 89/686/EEC: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

- Protection of respiratory system: Avoid the inhalation of vapours. Mask: Suitable combined filter mask for gases, vapours and particles (EN141/EN143). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour.
- Protection of eyes and face: Install emergency eye baths close to the working area. Goggles: Safety goggles with suitable lateral protection (EN166). Face shield: No.
- Protection of hands and skin: Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred. Gloves: Gloves resistant against chemicals (EN374). The gloves should be immediately replaced when any sign of degradation is noted. Boots: No. Apron: No. Clothing: Suitable work clothes which avoid contact with the product should be worn.

Environmental exposure controls: Avoid any spillage in the environment of the product, wastes, packages or spraybooth sewages. Avoid any release into the atmosphere above the legal limits allowed.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state: Aerosol
- Color: Copper
- Odor: Characteristic
- Specific gravity: 0,84 g/cc @ 20°C - 7 lb/gal @ 68°F
- Solubility in water: Insoluble
- Flash point: -83°C -117°F Setflash

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling conditions.

Dangerous reactions: Possible dangerous reaction with water, oxidizing agents, acids, peroxides.

Thermal decomposition: As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available.

Toxicological effects: Exposure to solvent vapor concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapors. Repeated or prolonged contact with the solvents of the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage.

Dose and lethal concentrations for individual ingredients:

	DL50 Oral		DL50 Cutaneous		CL50 Inhalation	
	mg/kg		mg/kg		mg/l.4hours	
Xylene (mixture of isomers)	4300	Rat	1700	Rabbit	22	Rat
Acetone	5800	Rat	20000	Rabbit	100	Rat

For more information about ingredients dangerous to health, see sections 2 and 8.

12. ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

Emissions to the atmosphere: When possible, avoid solvent release to the atmosphere; do not pulverize more than is strictly necessary.

- VOC: 616 g/l - 5,1 lb/gal ASTM D-3960

- Aromatic hydrocarbons: 28 % Weight

Ecotoxicological data for individual ingredients:

	CL50		CE50		CI50	
	mg/l.96hours		mg/l.48hours		mg/l.72hours	
Acetone	2000	Fishes	12100	Daphnia		
Xylene (mixture of isomers)	75	Fishes	16	Daphnia		

13. CONSIDERATIONS FOR DISPOSAL

Handling of waste, Directive 75/442/EEC~91/156/EC: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local/national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers, Directive 94/62/EC: Emptied containers and packaging should be disposed of in accordance with currently local/national regulations. Ensure the container is completely empty before throwing it away.

Procedures for neutralising or destroying the product: In accordance with local regulations. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

AEROSOLS

DOT Proper Shipping Name:	Aerosol – Consumer Commodity		
DOT Technical Name:	ORM-D		
DOT Hazard Class:	XXXXXXX		Hazard Subclass: NA
DOT UN/NA Number:	UN1950	Packing Group: NA	Resp. Guide Page: NA

Transport by road (ADR):
 Transport by rail (RID):
 Class: 2.5F UN n°1950 Packaging group: -
 Transport document: Consignment paper
 Written instructions.

Transport by sea (IMDG):
 Class: 2.1 UN n°1950 Marine pollutant: no Packaging group: -
 Emergency Sheet (EmS): F-D,S-U
 First Aid Guide (MFAG): 620*
 Transport document: Shipping Bill of Lading

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Transport by air (ICAO/IATA):
Class: 2.1 UN n°1950
Transport document:

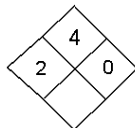
Packaging group: -
Air Bill of Lading

15. INFORMATION ON REGULATIONS

US (Federal) Regulations:

TSCA: All components of this product are either listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals or are otherwise compliant with TSCA regulations.

NFPA 704:



Canadian Regulations:

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR”
According to the WHMIS this product is classified as: B5.

Other EC regulations:

It is applicable the Directive 75/324/EEC~94/1/EC, relating to aerosol dispensers and the Directive 87/404/EEC, concerning simple pressure packages.

16. OTHER INFORMATION

Material Safety Data Sheet regulations: Material Safety Data Sheet in accordance with Regulation (EC) No 1907/2006.

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.