

Material Safety Data Sheet

Print Date: 02/15/2006

Revision Date : 02/15/2006

Trade name: **2 Part Epoxy Rust-Cure Primer**

Part number:
3 680 032

Version : 2.0



SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 2 Part Epoxy Rust-Cure Primer
MSDS Number : 888100004252
Product Use Description : Solvent-borne coatings, Primers
Company : Peter Kwasny Inc.
510 Broadhollow Road 209
Melville-NY, 11747
Telephone : 001-727-363-3047
Telefax : 001-727-363-0630
Emergency telephone : 001-352-323-3500
number

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal Word : DANGER
Form : aerosol
Odour : characteristic
Odour - Control parameters : no data available
Hazard Summary : May cause fire.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.

Flammable Aerosol
Irritant

Potential Health Effects

Eyes : Causes eye irritation.
Skin : May cause skin irritation.
Target Organs : Eyes
Skin
Central nervous system

Carcinogenicity:

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- NTP : No component of this product which is present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.
- IARC : ethylbenzene (CAS-No.: 100-41-4)
- OSHA : No component of this product which is present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA.
- CA Prop 65 : WARNING! This product contains a chemical known in the State of California to cause cancer.
ethylbenzene (CAS-No.: 100-41-4)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight %
dimethyl ether	115-10-6	>= 30 - < 60
acetone; propan-2-one; propanone	67-64-1	>= 10 - < 30
xylene	1330-20-7	>= 5 - < 10
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	>= 1 - < 5
trizinc bis(orthophosphate)	7779-90-0	>= 1 - < 5
ethylbenzene	100-41-4	>= 1 - < 5
butan-1-ol; n-butanol	71-36-3	>= 1 - < 5
2-ethoxy-1-methylethyl acetate; 2PG1EEA	54839-24-6	>= 1 - < 5
ethylenediamine; 1,2-diaminoethane	107-15-3	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

- General advice : Remove from exposure, lie down. Never give anything by mouth to an unconscious person. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). When symptoms persist or in all cases of doubt seek medical advice. Take off all contaminated clothing immediately.
- Inhalation : Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
- Skin contact : Wash off immediately with soap and plenty of water. Do NOT

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Eye contact	: use solvents or thinners. : Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Ingestion	: If a person vomits when lying on his back, place him in the recovery position. Clean mouth with water and drink afterwards plenty of water. Ingest activated charcoal. If swallowed, seek medical advice immediately and show this container or label.

SECTION 5. FIRE-FIGHTING MEASURES

Form	: aerosol
Flash point	: < 0 °C (< 32 °F)
Ignition temperature	: 365 °C (689 °F)
Lower explosion limit	: 1.4 %(V)
Upper explosion limit	: 8.5 %(V)
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media which must not be used for safety reasons	: high volume water jet
Specific hazards during fire fighting	: Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Do not use a solid water stream as it may scatter and spread fire.
Special protective equipment for fire-fighters	: Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
Further information	: Use water spray to cool unopened containers. Exposure to decomposition products may be a hazard to health. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ventilate the area.
Remove all sources of ignition.
Avoid inhalation of vapour or mist.
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Should not be released into the environment.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
- CERCLA Hazardous substances and corresponding RQs : 115-10-6 100 lbs *final RQ*
67-64-1 5,000 lbs *final RQ*
1330-20-7 100 lbs *final RQ*
107-98-2 100 lbs *final RQ*
100-41-4 1,000 lbs *final RQ*
71-36-3 5,000 lbs *final RQ*
107-15-3 5,000 lbs *final RQ*

SECTION 7. HANDLING AND STORAGE

Handling

- Handling : Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
Take precautionary measures against static discharges.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
Limit the stocks at work place.
Do not spray on a naked flame or any other incandescent material.
Use only in well-ventilated areas.
For personal protection see section 8.

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Advice on protection against fire and explosion : Keep away from heat and sources of ignition.
Do not smoke.
Vapours may form explosive mixtures with air.
Vapours are heavier than air and may spread along floors.
Electrical equipment should be protected to the appropriate standard.

Dust explosion class : not applicable

Storage

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
Please observe the storage instructions for aerosols

Advice on common storage : Keep away from food, drink and animal feedingstuffs.
Keep away from oxidising agents and strongly acid or alkaline materials.

Storage period : 24 Months

Storage temperature : 5 - 30 °C (41 - 86 °F)

Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Type:	Value
acetone; propan-2-one; propanone	67-64-1	ACGIH	TWA	500 ppm
		ACGIH	STEL	750 ppm
		NIOSH	REL	250 ppm 590 mg/m3
		OSHA Z1	PEL	1,000 ppm 2,400 mg/m3
		OSHA Z1A	TWA	750 ppm 1,800 mg/m3
		OSHA Z1A	STEL	1,000 ppm 2,400 mg/m3
		US CA OEL	TWA PEL	750 ppm 1,780 mg/m3
		US CA OEL	Ceiling	3,000 ppm
		US CA OEL	STEL	1,000 ppm 2,400 mg/m3

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xylene	1330-20-7	ACGIH	TWA	100 ppm
		ACGIH	STEL	150 ppm
		OSHA Z1	PEL	100 ppm 435 mg/m3
		OSHA Z1A	TWA	100 ppm 435 mg/m3
		OSHA Z1A	STEL	150 ppm 655 mg/m3
		US CA OEL	TWA PEL	100 ppm 435 mg/m3
		US CA OEL	Ceiling	300 ppm
		US CA OEL	STEL	150 ppm 655 mg/m3
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	ACGIH	TWA	100 ppm
		ACGIH	STEL	150 ppm
		NIOSH	REL	100 ppm 360 mg/m3
		NIOSH	STEL	150 ppm 540 mg/m3
		OSHA Z1A	TWA	100 ppm 360 mg/m3
		OSHA Z1A	STEL	150 ppm 540 mg/m3
		US CA OEL	TWA PEL	100 ppm 360 mg/m3
		US CA OEL	STEL	150 ppm 540 mg/m3
ethylbenzene	100-41-4	ACGIH	TWA	100 ppm
		ACGIH	STEL	125 ppm
		NIOSH	REL	100 ppm 435 mg/m3
		NIOSH	STEL	125 ppm 545 mg/m3
		OSHA Z1	PEL	100 ppm 435 mg/m3
		OSHA Z1A	TWA	100 ppm 435 mg/m3
		OSHA Z1A	STEL	125 ppm 545 mg/m3
		US CA OEL	TWA PEL	100 ppm 435 mg/m3
		US CA OEL	STEL	125 ppm 545 mg/m3
butan-1-ol; n-butanol	71-36-3	ACGIH	TWA	20 ppm
		NIOSH	Ceil. Time	50 ppm 150 mg/m3
		OSHA Z1	PEL	100 ppm 300 mg/m3
		OSHA Z1A	Ceiling	50 ppm 150 mg/m3
		US CA OEL	Ceiling	50 ppm 150 mg/m3
ethylenediamine; 1,2- diaminoethane	107-15-3	ACGIH	TWA	10 ppm
		NIOSH	REL	10 ppm 25 mg/m3
		OSHA Z1	PEL	10 ppm 25 mg/m3
		OSHA Z1A	TWA	10 ppm 25 mg/m3
		US CA OEL	TWA PEL	10 ppm 25 mg/m3

- Engineering measures : Provide adequate ventilation.
- Eye protection : safety glasses
- Hand protection : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : impervious clothing

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- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
respirator with ABEK filter
- Hygiene measures : Do not inhale aerosol.
When using, do not eat, drink or smoke.
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of workday.
Wash contaminated clothing before re-use.
Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : aerosol
- Odour : characteristic
- Flash point : < 0 °C (< 32 °F)
- Ignition temperature : 365 °C (689 °F)
- Thermal decomposition : Heating can release hazardous gases., Fire or intense heat may cause violent rupture of packages.
- Lower explosion limit : 1.4 %(V)
- Upper explosion limit : 8.5 %(V)
- Vapour pressure : 3.6 hPa
at 20 °C (68 °F)
- Density : 0.85 g/cm³
at ca.20 °C (68 °F)
- VOC : 64.58 %
-

SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Heat, flames and sparks.
- Materials to avoid : strong acids and strong bases
-

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oxidizing agents

Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

Thermal decomposition : Heating can release hazardous gases. Fire or intense heat may cause violent rupture of packages.

Hazardous reactions : Vapours may form explosive mixture with air.
Note: No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Skin irritation : Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin.

Eye irritation : The liquid splashed in the eyes may cause irritation and reversible damage.
Strong lachrymation can make it difficult to escape

Carcinogenicity : No data is available on the product itself.

Toxicity to reproduction : No data is available on the product itself.

Teratogenicity : No data is available on the product itself.

Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Liver and kidney injuries may occur.
Even the smallest quantities that enter into the lung due to swallowing or subsequent vomiting can lead to a pulmonary oedema or pneumonia.

Component:

acetone; propan-2-one; propanone 67-64-1

Acute oral toxicity: LD50 rat
Dose: 5,800 mg/kg

Acute dermal toxicity: LD50 rabbit
Dose: 20,000 mg/kg

Acute inhalation toxicity: LC50 rat
Dose: 70 mg/l
Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.

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		<p>Result: Mild skin irritation Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. <u>Eye irritation</u>: Classification: Irritating to eyes. Result: Moderate eye irritation</p>
xylene	1330-20-7	<p><u>Acute oral toxicity</u>: LD50 rat Dose: 2,840 mg/kg</p> <p><u>Acute dermal toxicity</u>: LD50 rabbit Dose: ca. 4,500 mg/kg</p> <p><u>Acute inhalation toxicity</u>: LC50 rat Dose: 6,350 mg/l Exposure time: 4 h</p> <p><u>Skin irritation</u>: Classification: Irritating to skin. Result: Mild skin irritation Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. <u>Eye irritation</u>: Classification: Irritating to eyes. Result: Mild eye irritation</p>
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	<p><u>Acute oral toxicity</u>: LD50 rat Dose: > 5,000 mg/kg</p> <p><u>Acute dermal toxicity</u>: LD50 rabbit Dose: 11,000 mg/kg</p> <p><u>Acute inhalation toxicity</u>: LC50 rat Dose: 40 mg/l Exposure time: 4 h</p> <p><u>Eye irritation</u>: Classification: Irritating to eyes. Result: Mild eye irritation</p>
trizinc bis(orthophosphate)	7779-90-0	<p><u>Skin irritation</u>: Classification: Irritating to skin. Result: Skin irritation</p> <p><u>Eye irritation</u>: Classification: Irritating to eyes. Result: Eye irritation</p>
ethylbenzene	100-41-4	<p><u>Acute oral toxicity</u>: LD50 rat Dose: 3,500 mg/kg</p> <p><u>Acute dermal toxicity</u>: LD50 rabbit Dose: 15,500 mg/kg</p> <p><u>Acute inhalation toxicity</u>: LC50 rat Dose: 18 mg/l Exposure time: 4 h</p>

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Skin irritation: Classification: Irritating to skin.
Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes.
Result: Risk of serious damage to eyes.

butan-1-ol; n-butanol

71-36-3

Acute oral toxicity: LD50 rat
Dose: 790 mg/kg

Acute dermal toxicity: LD50 rabbit
Dose: 3,400 mg/kg

Acute inhalation toxicity: LC50 rat
Dose: > 18 mg/l
Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.
Result: Skin irritation

Eye irritation: Classification: Irritating to eyes.
Result: Risk of serious damage to eyes.

ethylenediamine; 1,2-diaminoethane

107-15-3

Acute oral toxicity: LD50 rat
Dose: 472 - 1,850 mg/kg

Acute dermal toxicity: LD50 rabbit
Dose: 560 mg/kg

Skin irritation: Classification: Causes burns.
Result: Extremely corrosive and destructive to tissue.

Eye irritation: Classification: Causes burns.
Result: Risk of serious damage to eyes.

Sensitization: Causes sensitization.

SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound halogens (AOX) : not included

Volatile organic compounds (VOC) content : 64.58 %

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

Component:

1-methoxy-2-propanol;
monopropylene glycol methyl
ether

107-98-2

Toxicity to fish:
LC50

Species: Pimephales promelas (fathead minnow)

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Dose: 20,800 mg/l
Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50
Species: Daphnia magna (Water flea)
Dose: > 500 mg/l
Exposure time: 48 h

Toxicity to algae:

IC50
Species: selenastrum capricornutum
Dose: > 1,000 mg/l
Exposure time: 72 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
Please ensure aerosol cans are sprayed completely empty
(including propellant)
Containers that have not been emptied in compliance with
regulations are regarded as hazardous waste.

SECTION 14. TRANSPORT INFORMATION

DOT 49 CFR

Proper shipping name : AEROSOLS
UN-No : 1950
Class : 2.1
Packing group :
Emergency Response : 126
Guidebook Number

TDGR

Proper shipping name : AEROSOLS
UN-No : 1950
Class : 2.1
Packing group :
Emergency Response : 126
Guidebook Number

ICAO / IATA-DGR

UN UN-No : 1950
Description of the goods : AEROSOLS

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Class : 2.1
ICAO-Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (passenger aircraft) : Y203

IMDG-Code

UN-No : UN 1950
Description of the goods : AEROSOLS
Class : 2.1
IMO-Labels : 2.1
EmS Number : F-D S-U
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable Aerosol

Moderate skin irritant
Severe eye irritant
Possible carcinogen.

TSCA Status : On TSCA Inventory

DSL Status : All components of this product are on the Canadian DSL list.

SARA 302 Components : ethylenediamine; 1,2-diaminoethane 107-15-3

SARA 313 Components : xylene 1330-20-7
ethylbenzene 100-41-4
butan-1-ol; n-butanol 71-36-3

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard
Fire Hazard

SARA III

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Components

CAS-No.

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xylene	1330-20-7
ethylbenzene	100-41-4
butan-1-ol; n-butanol	71-36-3

SARA III US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

<u>Components</u>	<u>CAS-No.</u>
ethylenediamine; 1,2-diaminoethane	107-15-3

PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

<u>Components</u>	<u>CAS-No.</u>
butan-1-ol; n-butanol	71-36-3
ethylbenzene	100-41-4
trizinc bis(orthophosphate)	7779-90-0
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2
xylene	1330-20-7
acetone; propan-2-one; propanone	67-64-1
dimethyl ether	115-10-6

MASS RTK US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

<u>Components</u>	<u>CAS-No.</u>
butan-1-ol; n-butanol	71-36-3
ethylbenzene	100-41-4
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2
xylene	1330-20-7
acetone; propan-2-one; propanone	67-64-1
dimethyl ether	115-10-6

NJ RTK US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

<u>Components</u>	<u>CAS-No.</u>
butan-1-ol; n-butanol	71-36-3
ethylbenzene	100-41-4
trizinc bis(orthophosphate)	7779-90-0
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2
xylene	1330-20-7
acetone; propan-2-one; propanone	67-64-1
dimethyl ether	115-10-6

California Prop. 65 : WARNING! This product contains a chemical known in the State of California to cause cancer.

ethylbenzene 100-41-4

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SECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Revision Date : 02/15/2006