

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/20/2009

Reviewed on 12/20/2009

## 1 Identification of substance

**Trade name:** GREEN ZINC PHOSPHATE PRIMER  
**Product codes:** 4530  
**Manufacturer:** INTERNATIONAL EPOXIES AND SEALERS  
 30241 Commerce Drive  
 San Antonio, FL 33576  
 (800)-451-7206, www.internationalepoxies.com  
**Emergency information:** **INFOTRAC:** 1-800-535-5053, CALL COLLECT: 352-323-3500 \*if located outside the U.S.\*

## 2 Composition/Data on components

**Chemical Description:** This product is a mixture of the substances listed below with nonhazardous additions.

### Dangerous components:

67-64-1	Acetone	33.02%
74-98-6	propane	15.73%
106-97-8	n-butane	9.24%
108-88-3	Toluene	8.37%
110-19-0	isobutyl acetate	4.36%
64-17-5	ethyl alcohol	4.3%
1330-20-7	xylene (mix)	3.55%
64742-89-8	VM&P Naphtha	1.73%
64742-47-8	Mineral Spirits	1.42%
1314-13-2	zinc oxide	0.21%

## 3 Hazards identification

### Hazard description:



Harmful  
Extremely flammable

### Physical dangers:

Extremely flammable liquid and vapor in a pressurized container. Keep away from heat, sparks, and flame.  
 Has narcotizing effect.  
 Extremely flammable.  
 Irritating to eyes.  
 Possible risk of harm to the unborn child  
 Keep out of the reach of children.

### Effects of chronic overexposure:

May cause permanent brain and 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 ratings (0 - 4):

Health = 1  
 Fire = 4  
 Reactivity = 3

### HMIS-ratings (0 - 4):

Health= 1  
 Fire= 4  
 Physical Hazard= 3

## 4 First aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Remove contaminated clothing. Wash exposed area with soap and water.  
**After eye contact:** Move to fresh air. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
**After swallowing:** Contact physician or poison control center.

## 5 Fire fighting measures

**Extinguishing agents:** CO2, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.  
**Protective equipment:** No special measures required.

## 6 Accidental release measures

**Personal safety:** Wear protective equipment. Keep unprotected persons away.  
**Environmental safety:** Do not allow product to reach sewage systems or ground water.  
**Clean-up/collection:** Ensure adequate ventilation.

## 7 Handling and storage

**Fire/explosion protection:** Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic discharges.  
**Storage requirements:** Observe pressurized container storage regulations. Consult with your local authorities.

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## 8 Exposure controls and personal protection:

### Components with limit values that require monitoring at the workplace:

#### 67-64-1 Acetone

PEL 2400 mg/m<sup>3</sup>, 1000 ppm  
 REL 590 mg/m<sup>3</sup>, 250 ppm  
 TLV Short-term value: 1782 mg/m<sup>3</sup>, 750 ppm  
 Long-term value: 1188 mg/m<sup>3</sup>, 500 ppm  
 BEI

#### 74-98-6 propane

PEL 1800 mg/m<sup>3</sup>, 1000 ppm  
 REL 1800 mg/m<sup>3</sup>, 1000 ppm  
 TLV Varies mg/m<sup>3</sup>, 1000 ppm

#### 106-97-8 n-butane

REL 1900 mg/m<sup>3</sup>, 800 ppm  
 TLV Varies mg/m<sup>3</sup>, 1000 ppm

#### 108-88-3 Toluene

PEL Short-term value: C 300; 500\* ppm  
 Long-term value: 200 ppm  
 \*10-min peak per 8-hr shift  
 REL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm  
 Long-term value: 375 mg/m<sup>3</sup>, 100 ppm  
 TLV 75 mg/m<sup>3</sup>, 20 ppm

#### 110-19-0 isobutyl acetate

PEL 700 mg/m<sup>3</sup>, 150 ppm  
 REL 700 mg/m<sup>3</sup>, 150 ppm  
 TLV 713 mg/m<sup>3</sup>, 150 ppm

#### 64-17-5 ethyl alcohol

PEL 1900 mg/m<sup>3</sup>, 1000 ppm  
 REL 1900 mg/m<sup>3</sup>, 1000 ppm  
 TLV Short-term value: 1880 mg/m<sup>3</sup>, NIC-1000 ppm  
 Long-term value: 1880 mg/m<sup>3</sup>, 1000 ppm  
 NIC-A3

#### 1330-20-7 xylene (mix)

PEL 435 mg/m<sup>3</sup>, 100 ppm  
 REL Short-term value: 655 mg/m<sup>3</sup>, 150 ppm  
 Long-term value: 435 mg/m<sup>3</sup>, 100 ppm  
 TLV Short-term value: 651 mg/m<sup>3</sup>, 150 ppm  
 Long-term value: 434 mg/m<sup>3</sup>, 100 ppm  
 BEI

#### Hygienic protection:

Keep away from foodstuffs and animal feed. Wash hands after use.

#### Breathing equipment:

A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.

#### Hand protection:

Protective gloves. The glove material has to be impermeable and resistant to the substance. No glove recommendation can be given.

#### Eye protection:

Tightly sealed goggles

## 9 Physical and chemical properties:

### General Information:

**Odor:** Aromatic  
**Boiling point:** -44°C  
**Flash point:** -19°C  
**Auto igniting:** Product is not self-igniting.  
**Danger of explosion:** Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 120 degrees fahrenheit.  
 In use, may form flammable/explosive vapour-air mixture.  
**Lower Explosion Limit:** 1.7 Vol %  
**Upper Explosion Limit:** 10.9 Vol %  
**Vapor Pressure:** 40 PSI, 2750 hPa  
**Density at 20°C:** 0.77 g/cm<sup>3</sup>  
**Specific Gravity:** Between 0.77 and 0.85 (Water equals 1.00)  
**VOC content:** 574.7 g/l / 4.80 lb/gal  
**VOC content (less exempt solvents):** 50.5 %  
**MIR Value:** 1.16  
**Solids content:** 16.3 %

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**10 Stability and reactivity:**

**Conditions to avoid:** Do not allow the can to exceed 120 degrees Fahrenheit. Stable at normal temperatures.  
**Hazardous Reactions:** No dangerous reactions known.

**11 Toxicological information:**

**Skin effects:** No irritant effect.  
**Eye effects:** Irritating effect.  
**Sensitization:** No sensitizing effects known.

**12 Ecological information**

**Other information:** Product does not contain CFC's.  
This product does not contain any chlorofluorocarbons (CFC's) or chlorinated solvents.  
**Acquatic toxicity:** Hazardous for water, do not empty into drains.

**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 empty containers with electric or gas torches.  
**Recommendation:** Completely empty cans should be recycled.

**14 Transport information:**

**Hazard class:** 2.1  
**Identification number:** N/A  
**Label:** 2.1  
**ADR/RID/TDG class:** 2 5F Gases  
**UN-Number:** 1950  
**IMDG Class:** 2.1  
**Packaging group:** II  
**EMS Number:** F-D,S-U  
**Marine pollutant:** No  
**ICAO/IATA Class:** 2.1  
**Propper shipping name:** Aerosols, Flammable  
Consumer Commodity ORM-D

**15 Regulations**

**SARA Section 355 (extremely hazardous substances):**

None of the ingredients in this product are listed.

**SARA Section 313 (Specific toxic chemical listings):**

108-88-3	Toluene
1330-20-7	xylene (mix)

**TSCA:** All ingredients are listed.  
**CPSC:** This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

**California Proposition 65 chemicals known to cause cancer:**

100-41-4	ethyl benzene
1333-86-4	Carbon black


**California Proposition 65 chemicals known to cause developmental toxicity:**

108-88-3 Toluene

**CANADIAN ENVIRONMENTAL PROTECTION ACT: WHMIS Symbols for Canada:**

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

A - Compressed gas  
D2A - Very toxic material causing other toxic effects



**EPA:** A= Known human carcinogen      B= Probable human carcinogen  
C= Possible human carcinogen  
D= Not classifiable as to human carcinogenicity: Inadequate human and animal evidence of carcinogenicity (or no data is available).  
I: 'Data are inadequate for an assessment of human carcinogeni potential.'  
II: 'Inadequate information to assess carcinogenic potential.'

67-64-1	Acetone	I
108-88-3	Toluene	II
110-19-0	isobutyl acetate	D
1330-20-7	xylene (mix)	I

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**IARC:** Group 2A: The ingredient is probably carcinogenic to humans.  
 Group 2B: The ingredient is possibly carcinogenic to humans. There is limited evidence of carcinogenicity.  
 Group 3: The ingredient is unclassifiable as to its carcinogenicity to humans.

108-88-3	Toluene	3
1330-20-7	xylene (mix)	3

**ACGIH:** A1-designates a confirmed human carcinogen.  
 A2-designates a suspected human carcinogen.  
 A3-designates an animal carcinogen.  
 A4-designates "not classifiable as a human carcinogen".

67-64-1	Acetone	A4
108-88-3	Toluene	A4
110-19-0	isobutyl acetate	A4
64-17-5	ethyl alcohol	A3
1330-20-7	xylene (mix)	A4

**NIOSH:** The following substances are regulated in the United States with reference to occupational exposure limits:

1333-86-4	Carbon black
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**Risk phrases:** Extremely flammable.  
 Irritating to eyes.  
 Possible risk of harm to the unborn child

**Safety phrases:** Keep out of the reach of children.  
 Do not breathe gas/fumes/vapour/spray.  
 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point  
 Wear suitable protective clothing and gloves.  
 If swallowed, seek medical advice immediately and show this container or label.  
 Use only in well-ventilated areas.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Contact:** Regulatory Affairs

### Abbreviations and acronyms:

GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 PP: Severe Marine Pollutant  
 P: Marine Pollutant  
 HMIS: Hazardous Materials Identification System (USA)  
 ISO: International Organization for Standardization  
 EPA: Environmental Protection Agency  
 IARC: International Agency for the Research of Cancer  
 NIOSH: National Institute for Occupational Safety and Health  
 TSCA: Toxic Substances Control Act  
 CPSC: Consumer Product Safety Commission