**U.S. Department of Labor**
Occupational Safety and Health Administration
(Non-Mandatory Form). Format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements.

# Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

## Section 1: Product and Company Identification

| | |
|---|---|
| Product Name: | **KCI Bright Zinc Galvanizing Primer (Aerosol)** |
| Product Identifier: | Bright Zinc Primer |
| Product Use: | Repairs HOT-DIP Galvanizing with Bright Finish |
| Item Code(s): | RW109B |
| SDS Code: | 003 |
| Manufacturer: | KCI, Inc. |
| Physical Address: | 3401 Reno Avenue<br>Charlotte, N.C. 28216 |
| Mailing Address: | P.O. Box 26614<br>Charlotte, N.C. 28221 |
| Business Phone: | 704-372-8435 |
| Business Fax: | 704-333-5955 |
| E-mail Address: | info@kciincorporated.com |
| Web Address: | www.kciincorporated.com |
| Emergency Phone: | CHEMTREC (24-Hour) 1-800-424-9300 |
| Date of Preparation: | June 4, 2007 (Revised November 23, 2014) |
| OSHA Regulatory Status: | Non-Regulated |
| WHMIS Classification: | Not a Controlled Product |

## Section 2: Composition and Information on Ingredients

| HAZARDOUS INGREDIENTS | CAS # | OSHA PEL | ACGIH TLV | LD50 (oral, rat) | LC50 (inhal, rat) | % | OTHER |
|---|---|---|---|---|---|---|---|
| 2-Propanone | 67-64-1 | 750 ppm | 1000 ppm | N/Av | N/Av | 48.8 | |
| Propane, Isobutane, N-Butane | 68476-86-8 | 800 ppm | 800 ppm | N/Av | N/Av | 25.0 | |
| Zinc Powder | 7440-66-6 | 5 mg/m$^3$ | 5 mg/m$^3$ | N/Av | N/Av | 10.1 | |
| Dimethylbenzene | 1330-20-7 | 100 ppm | 100 ppm | N/Av | N/Av | 4.8 | |
| Ethylbenzene | 100-41-4 | 100 ppm | 100 ppm | N/Av | N/Av | 3.1 | |
| Aluminum Flake | 7429-90-5 | 15 mg/m$^3$ (Dust) | 10 mg/m$^3$ (Dust) | N/Av | N/Av | 2.8 | |
| Stoddard Solvent | 8052-41-3 | 100 ppm | 100 ppm | N/Av | N/Av | 1.1 | |

See Section 16 for Definitions of Terms Used.

## Section 3: Hazard Identification

**EMERGENCY OVERVIEW**

EYE: Liquid or vapors may cause severe irritation, redness, burning, tearing, swelling and/or pain.

SKIN: Frequent or prolonged contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INGESTION: Corrosive and may cause gastrointestinal irritation, nausea, vomiting, diarrhea and permanent damage to mouth and throat.

INHALATION: May cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache.

EFFECTS OF ACUTE EXPOSURE: May cause narcosis, unconsciousness and even asphyxiation in high vapor concentrations. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

EFFECTS OF CHRONIC EXPOSURE: Long term exposure may cause anemia and lung, liver or kidney damage. The solvents listed have been reported to affect the central nervous system. Reports have associated permanent brain damage with any repeated and prolonged overexposure to solvents among persons engaged in the painting trade.

OTHER IMPORTANT HAZARDS: N/Av

SUGGESTED HMIS RATING: Health | 3 | Flammability | 4 | Reactivity | 0 | Personal Protection | |

SUGGESTED NATIONAL FIRE PROTECTION ASSOCIATION: Health | 3 | Flammability | 4 | Reactivity | 0 |

## Section 4: First Aid Measures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.

INGESTION: Unlikely due to being in aerosol form. Should actual ingestion occur, do not induce vomiting! Drink a glass of water or milk to dilute. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

EYE CONTACT: Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician for definitive treatment.

SKIN CONTACT: Remove with soap and water. Continue flushing with water for several minutes. Use skin cream to counter resulting dryness. Consult a physician if irritation continues or if large skin area is affected.

## Section 5: Fire Fighting Measures

CONDITIONS OF FLAMMABILITY: N/Av

MEANS OF EXTINCTION: Use water fog, $CO_2$, dry chemical or alcohol foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure demand. Use water spray to cool fire exposed aerosol containers for containers can rupture violently from heat developed pressure.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors can travel to a source of ignition and flash back. 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 or other sources of ignition. They may explode and cause injury or death.

FLASH POINT / DETERMINATION: -156°F/Pensky-Martens C.C.

UPPER FLAMMABLE LIMIT: 12.8

LOWER FLAMMABLE LIMIT: 0.7

AUTO-IGNITION TEMPERATURE: N/Av

HAZARDOUS COMBUSTION PRODUCTS: N/Av

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: N/Av

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: N/Av

## Section 6: Accidental Release Measures

LEAK / SPILL RESPONSE: Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content should be contained as any other solvent spill. Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove all sources of ignition and use non-sparking equipment. Soak up material with inert absorbent. Flush area with water. All rinsate should be placed in safety containers and labeled for proper disposal.

SPECIAL INSTRUCTIONS: Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal considerations.

## Section 7: Handling and Storage

HANDLING PROCEDURES / EQUIPMENT: Avoid prolonged or repeated skin contact. Avoid breathing vapors.

STORAGE REQUIREMENTS: Store in area above freezing and below 120°F (49°C). Do not incinerate (burn) containers. Assure can is in a secure place to prevent knocking over and accidental rupture. Always replace overcap when not in use. For store of pallet quantities, compliance with ANSI/NFPA 30B is recommended.

## Section 8: Exposure Controls / Personal Protection

EYE PROTECTION: Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact could occur, chemical splash proof goggles are recommended.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Wash hands with soap and water after use.

ENGINEERING CONTROLS: General ventilation (typically 10 air changes for hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system, may be needed to control air contamination below that of the lowest TLV/PEL rated ingredient from Section 2.

EXPOSURE GUIDELINE LEVELS: Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing use the lowest rated ingredient in Section 2.

## Section 9: Physical and Chemical Properties

| | |
|---|---|
| PHYSICAL STATE: | N/Av |
| ODOR and APPEARANCE: | Gray/Metallic |
| ODOR THRESHOLD: | N/Av |
| SPECIFIC GRAVITY ($H_2O$=1): | 0.7965 |
| VAPOR PRESSURE (mm HG): | 80 - 90 |
| VAPOR DENSITY (AIR=1): | > 1 |
| EVAPORATION RATE (BA=1): | > 1 |
| BOILING POINT (°F): | -43°F to 387°F |
| FREEZE POINT (°F): | 32°F |
| pH: | N/Av |
| COEFFICIENT OF WATER/OIL DISTRIBUTION: | N/Av |
| DENSITY: | N/Av |
| SOLUBILITY IN WATER (% by weight): | None |
| % VOLATILE BY VOLUME: | N/Av |
| VOC'S: | 2.29 lbs/gal (275 gr/ltr) |

## Section 10: Stability and Reactivity

STABILITY: This product is stable under normal conditions.

CONDITIONS TO AVOID: All sources of ignition, welding arcs and open flames.

MATERIALS TO AVOID (INCOMPATIBILITIES): Avoid strong acids, alkalis, oxidizers and amines.

CONDITIONS OF REACTIVITY: N/Av

HAZARDOUS DECOMPOSITION BY-PRODUCTS: Oxides of carbon, oxides of nitrogen, and may produce forms of chloride, chlorine and phosgene.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

## Section 11: Toxicological Information

LD50 (oral, rat) = N/Av

LC50 (inhalation, rat) = N/Av

ROUTES OF ENTRY: Inhalation [Y] Eye Contact [Y] Skin Contact [Y] Skin Absorption [Y] Ingestion [Y]

EXPOSURE LIMITS: Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing use the lowest rated ingredient in Section 2.

IRRITANCY OF PRODUCT: N/Av

SENSITIZATION TO PRODUCT / MEDICAL CONDITIONS AGGRAVATED: N/Av

CARCINOGENICITY: NTP [N] IARC Monographs [N] OSHA Regulated [N]

Presently not on any lists.

TERATOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICITY: N/Av

TOXICOLOGICAL DATA: N/Av

## Section 12: Ecological Information

ENVIRONMENTAL EFFECTS: This product has not been tested for environmental effects.

IMPORTANT ENVIRONMENTAL CHARACTERISTICS: N/Av

AQUATIC TOXICITY: N/Av

## Section 13: Disposal Considerations

An aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations. Collected rinsate materials from spills may be hazardous wastes, and therefore subject to local, state and federal regulations.

## Section 14: Transportation Information

THIS MATERIAL IS **NON-HAZARDOUS** (Per 49 CFR 172.101) BY THE U.S. DEPARTMENT OF TRANSPORTATION.

**NON-BULK SHIPMENTS:**

| | |
|---|---|
| PROPER SHIPPING NAME: | Aerosol-Consumer Commodity |
| HAZARD CLASS NUMBER and DESCRIPTION: | 2.1 |
| UN IDENTIFICATION NUMBER: | UN 1950 |
| PACKING GROUP: | N/Ap |
| DOT LABEL(S) REQUIRED: | ORM-D |
| NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER, 1996: | 126 |

**BULK SHIPMENTS:**

| | |
|---|---|
| PROPER SHIPPING NAME: | |
| HAZARD CLASS NUMBER and DESCRIPTION: | |
| UN IDENTIFICATION NUMBER: | |
| PACKING GROUP: | |
| DOT LABEL(S) REQUIRED: | |
| NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER, 1996: | |

**BOTH SHIPMENTS:**

MARINE POLLUTANT: This product does not contain any component designated by the DOT to be a Marine Pollutant (49 CFR 172.101, Appendix B).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

## Section 15: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA): The product on this SDS, or all of its components, is listed under TSCA.

SARA TITLE III, SECTION 313: The following ingredients are subject to the reporting requirements of Section 313 of Title III of the Superfund and Reauthorization Act of 1986 and 40 CFR Part 372: Zinc Powder, Dimethylbenzene, Ethylbenzene, Aluminum Flake.

CLEAN AIR ACT (CAA): The following ingredients appear on the List of Hazardous Air Pollutants (HAP - 42 USC 7412, Title I, Part A, p112): None

CLEAN WATER ACT (CWA): The following ingredients appear on the CWA List of Hazardous Substances (40 CFR 116:4): None

CALIFORNIA PROPOSITION 65: The following ingredients appear of the Proposition 65 list(s): None

NEW JERSEY RIGHT TO KNOW INFORMATION: (5 most predominant ingredients / hazardous & non-hazardous)

2-Propane CAS#76-64-1

Propane/Isobutane/N-Butane CAS #68476-86-8

Zinc Powder CAS# 7440-66-6

Dimethylbenzene CAS #1330-20-7

Ethylbenzene CAS #100-41-4

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS): This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

DOMESTIC SUBSTANCES LIST (DSL): The product on this SDS, or all of its components, is included in the DSL.

## Section 16: Other Information

| | |
|---|---|
| N/E | Not Established |
| N/Av | Not Available |
| N/Ap | Not Applicable |
| IARC | International Agency for Research on Cancer |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| NIOSH | National Institute for Occupational Health and Safety |
| TLV-TWA | Threshold Limit, Time Weighted Average |
| NAERG | North American Emergency Response Guidebook |
| WHMIS | Workplace Hazardous Materials Information System |

This SDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. KCI provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of KCI. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.