

Section 1: Product and Company Identification

<i>Product Identifier:</i>	KCI Zinc-Galv
<i>Product Use:</i>	Zinc primer for galvanizing repair
<i>Item Code:</i>	109-1, 109-4, 109-16
<i>Supplier Name:</i>	PowerWeld Inc.
<i>Supplier Address:</i>	2501 Beech Street Valparaiso, IN 46383
<i>Supplier Web Address:</i>	www.powerweldinc.com
<i>Supplier Phone:</i>	219-462-8700 1-800-826-9073
<i>Manufacturer:</i>	KCI, Inc.
<i>Manufacturer Address:</i>	3401 Reno Avenue Charlotte, NC 28221
<i>Manufacturer Web Address:</i>	www.kciincorporated.com
<i>Manufacturer Phone:</i>	780-372-8435
<i>Emergency Phone:</i>	CHEMTREC (24-hour) 1800-424-9300
<i>Prepared By:</i>	PowerWeld Inc.
<i>Preparation Date:</i>	16 January 2017

Section 2: Hazard Identification

<i>Classification:</i>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity (single exposure)	Category 3
	Specific target organ toxicity (repeated exposure)	Category 2
	Aspiration toxicity	Category 1
	Flammable aerosols	Category 1
	Gases under pressure	Compressed Gas
<i>Label Elements:</i>	Danger	



Hazard Statements

H222	Extremely flammable aerosol.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs (central nervous system, eyes, kidney, liver, respiratory system and skin) through prolonged or repeated exposure.

Precautionary Statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection /face protection.
- P306+ IF EXPOSED OR CONCERNED:
- P313 Get medical advice/attention.
- P305+ IF IN EYES:
- P351+ Rinse cautiously with water for several minutes.
- P338 Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+ IF EYE IRRITATION PERSISTS:
- P313 Get medical advice/attention.
- P304+ IF INHALED:
- P340 Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P301+ IF SWALLOWED:
- P310 Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.
- P405 Store locked up.
- P403+ Store in a well-ventilated place.
- P233 Keep container tightly closed.
- P410+ Protect from sunlight.
- P412 Do not expose to temperatures exceeding 50°C/122°F.
- P501 Dispose of contents/container to an approved waste disposal plant.

Other Hazards:

Toxic to aquatic life with long lasting effects. 0% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3: Composition/Information on Hazardous Ingredients

HAZARDOUS INGREDIENTS	CAS NUMBER	APPROXIMATE CONCENTRATION (%)*
Zinc powder	7440-66-6	20 – 30
Acetone	67-64-1	20 – 30
Propane/Isobutane/N-Butane	68476-86-8	20 – 30
Toluene	108-88-3	1 – 10
Xylene	1330-20-7	1 – 10
Butyl acetate	123-86-4	1 – 10

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: First-aid Measures

<i>Inhalation:</i>	Move to fresh air. Call a physician immediately. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.
<i>Ingestion:</i>	Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.
<i>Eye Contact:</i>	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician if irritation persists.
<i>Skin Contact:</i>	Wash off immediately with plenty of water. Get medical attention immediately if symptoms occur.
<i>Symptoms:</i>	Irritating to skin. Causes eye irritation. Inhalation causing central nervous system effects. Ingestion causes lung damage. Treat symptomatically.

NOTE: In all severe cases, contact physician immediately. Local telephone operators can provide number of regional poison control centre.

Section 5: Fire-fighting Measures

<i>Flammable:</i>	Yes, flammable
<i>Means of Extinction:</i>	Water fog, dry chemical, Carbon dioxide (CO ₂). Cool containers / tanks with water spray. DO NOT use a solid water stream as it may scatter and spread fire.
<i>Auto-ignition Temperature:</i>	Not available
<i>Hazardous Combustion Products:</i>	Not available
<i>Explosion Data Sensitivity to Mechanical Impact:</i>	Not available
<i>Explosion Data Sensitivity to Static Discharge:</i>	Yes
<i>Special Equipment:</i>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.
<i>Precautions for Fire Fighters:</i>	See above

Section 6: Accidental Release Measures

<i>Protective Equipment:</i>	See Section 8
<i>Emergency Procedures:</i>	See below
<i>Leak or Spill Procedure:</i>	Prevent further leakage or spillage if safe to do so. Contain liquid and collect with an inert, non-combustible material.

Section 7: Handling and Storage

<i>Handling Procedures and Equipment:</i>	Avoid contact with eyes. Avoid breathing vapours or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Avoid skin contact. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.
-------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Storage Requirements:
Incompatibilities:

Keep containers tightly closed in a dry, cool and well-ventilated place.
 Store away from strong oxidizers and acids.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

HAZARDOUS INGREDIENTS	CAS NUMBER	ACGIH TLV	OSHA PEL
Acetone	67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m ³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 2400 mg/m ³ <i>The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors.</i> (vacated) STEL: 1000 ppm
Propane/Isobutane/N-Butane	68476-86-8	74-98-6 – TWA: 1000 ppm 106-97-8 – STEL: 1000 ppm 75-28-5 – STEL: 1000 ppm	74-98-6 – TWA: 1000 ppm TWA: 1800 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m ³ 106-97-8 – (vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m ³
Toluene	108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm
Xylene	1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³
Butyl acetate	123-86-4	STEL: 200 ppm TWA: 150 ppm	TWA: 150 ppm TWA: 710 mg/m ³ (vacated) TWA: 150 ppm (vacated): 710 mg/m ³ (vacated) STEL: 200 ppm (vacated) STEL: 950 mg/m ³
Ethyl benzene	100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m ³

Engineering Controls:

Personal Protective Equipment:

Use adequate ventilation to keep the exposure levels below the OELs.

Eye/Face Protection – Safety glasses with side-shields

Skin and Body Protection – Chemical resistant apron. Protective gloves.

Respiratory Protection – If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures – Handle in accordance with good industrial hygiene and safety practices.

Section 9: Physical and Chemical Properties

<i>Physical State:</i>	Aerosol
<i>Odour and Appearance:</i>	Solvent scent, opaque grey in colour
<i>Odour Threshold (ppm):</i>	Not available
<i>pH:</i>	Not available
<i>Melting Point:</i>	Not available
<i>Freezing Point:</i>	Not available
<i>Boiling Point:</i>	Not available
<i>Flashpoint:</i>	-96.4°C/-141°F (based on propellant)
<i>Upper Flammable Limit (% by volume):</i>	Not available
<i>Lower Flammable Limit (% by volume):</i>	Not available

Section 10: Stability and Reactivity

<i>Chemical Stability:</i>	Stable under recommended storage conditions.
<i>Possible Hazardous Reactions:</i>	None under normal processing.
<i>Conditions to Avoid:</i>	Extremes of temperatures and direct sunlight.
<i>Materials to Avoid (Incompatibilities):</i>	Store away from strong oxidizers and acids.
<i>Conditions of Reactivity:</i>	Not available
<i>Hazardous Decomposition By-Products:</i>	Carbon oxides
<i>Hazardous Polymerization:</i>	Does not occur

Section 11: Toxicological Information

<i>Skin Contact:</i>	Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.
<i>Skin Absorption:</i>	Not available
<i>Eye Contact:</i>	Irritating to eyes.
<i>Inhalation:</i>	Exposure to high vapor concentrations may cause nervous system effects such as headache, nausea, and dizziness.
<i>Ingestion:</i>	Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.
<i>Effects of Acute Exposure:</i>	May cause drowsiness and dizziness.
<i>Effects of Chronic Exposure:</i>	May cause damage to organs through prolonged or repeated exposure. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Prolonged skin contact may defat the skin and produce dermatitis.
<i>Irritancy of Product:</i>	Irritating to skin and eyes.
<i>Sensitization to Product:</i>	Not available
<i>Carcinogenicity:</i>	Toluene (Group 3), Xylene (Group 3), Ethyl benzene (Group 2B)
<i>Reproductive Effects:</i>	Contains ingredients that are suspected reproductive hazards.
<i>Respiratory Sensitization:</i>	Not available
<i>Toxicological Data:</i>	ATEmix (oral): 920 mg/kg ATEmix (dermal): 2501 mg/kg ATEmix (inhalation-gas): 93360 mg/L ATEmix (inhalation-dust/mist): 21.8 mg/L ATEmix (inhalation-vapour): 106 mg/L

Section 12: Ecological Information

Aquatic and Terrestrial Toxicity:

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Zinc powder 7440-66-6	0.11 – 0.271 mg/L EC50 Psuedokirchneriella subcapitata 96h static 0.09 – 0.125 mg/L EC50 Psuedokirchneriella subcapitata 72h static	0.211 – 0269 mg/L LC50 Pimephales promelas 96h semi- static 2.16 – 3.05 mg/L LC50 Pimephales promelas 96h flow-through 0.24 mg/L LC50 Oncorhynchus mykiss 96h flow-through 0.41 mg/L LC50 Oncorhynchus mykiss 96h static 0.45 mg/L LC50 Cyprinus carpio 96h semi-static 0.59 mg/L LC50 Oncorhynchus mykiss 96h semi-static 2.66 mg/L LC50 Pimephales promelas 96h static 3.5 mg/L LC50 Lepomis macrochirus 96h static 30 mg/L LC50 Cyprinus carpio 96h 7.8 mg/L LC50 Cyprinus carpio 96h static	0.139 – 0.908 mg/L EC50 Daphnia magna 48h static
Acetone 67-64-1	-	4.74 – 6.33 mL/L LC50 Oncorhynchus mykiss 96h 6210 – 8120 mg/L LC50 Pimephales promelas 96h static 8300 mg/L LC50 Lepomis macrochirus 96h	10294 – 17704 mg/L EC50 Daphnia magna 48h static 12600 – 12700 mg/L EC50 Daphnia magna 48h
Propane/Isobutane/N- Butane 68476-86-8	-	-	-
Toluene 108-88-3	433 mg/L EC50 Psuedokirchneriella subcapitata 96hstatic 12.5 mg/L Psuedokirchneriella subcapitata 72h static	11.0 – 15.0 mg/L LC50 Lepomis macrochirus 96h static 14.1 – 17.16 mg/L LC50 Oncorhynchus mykiss 96h static 15.22 – 19.05 mg/L LC50 Pimephales promelas 96h flow- through 5.89 – 7.81 mg/L LC50 Oncorhynchus mykiss 96h flow- through 50.87 – 70.34 mg/L LC50 Poecilia reticulate 96h static 12.6 mg/L LC50 Pimephales promelas 96h static 28.2 mg/L LC50 Poecilia reticulate 96h semi-static 5.8 mg/L LC50 Oncorhynchus mykiss 96h semi-static 54 mg/L LC50 Oryzias latipes 96h static	5.46 – 9.83 mg/L EC50 Daphnia magna 48h static 11.5 mg/L EC50 Daphnia magna 48h
Xylene 1330-20-7	-	13.1 – 16.5 mg/L LC50 Lepomis macrochirus 96h flow-through 13.5 – 17.3 mg/L LC50 Oncorhynchus mykiss 96h 2.661 – 4.093 mg/L LC50 Oncorhynchus mykiss 96h static 23.53 – 29.97 mg/L LC50 Pimephales promelas 96h static 30.26 – 40.75 mg/L LC50 Poecilia reticulata 96h static 13.4 mg/L LC50 Pimephales promelas 96h flow-through 19 mg/L LC50 Lepomis macrochirus 96h 780 mg/L LC50 Cyprinus carpio 96h semi-static	0.6 mg/L LC50 Gammarus lacustris 48h 3.82 mg/L EC50 water flea 48h
Butyl acetate	674.7 mg/L EC50 Desmodismus subcapicatus	17 – 19 mg/L LC50 Pimephales promelas 96h flow-through	-

123-86-4	72h	100mg/L LC50 Lepomis macrochirus 96h static	
Ethyl benzene 100-41-4	4.6 mg/L EC50	11.0 – 18.0 mg/L LC50	
	Psuedokirchneriella subcapitata 72h	Oncorhynchus mykiss 96h static	
	438 mg/L EC50	7.55 – 11 mg/L LC50 Pimephales promelas 96h flow-through	
	Psuedokirchneriella subcapitata 95h	9.1 – 15.6 mg/L LC50 Pimephales promelas 96h static	1.8 – 2.4 mg/L EC50 Daphnia magna 48h
	2.6 – 11.3 mg/L EC50	32 mg/L LC50 Lepomis macrochirus 96h static	
	Psuedokirchneriella subcapitata 72h static	4.2 mg/L LC50 Oncorhynchus mykiss 96h semi-static	
	1.7 – 7.6 mg/L EC50	9.6 mg/L LC50 Poecilia reticulata 96h static	
	Psuedokirchneriella subcapitata 96h static		

Persistence and Degradability: Not available
Bio-accumulative Potential: Not available
Soil Mobility: Not available

Section 13: Disposal Considerations

NOTE: Always dispose of waste in accordance with local, provincial and federal regulations.

Safe Handling: Do not re-use empty containers.
Methods of Disposal: Dispose of in accordance with federal, regional, and local regulations

Section 14: Transportation Information

UN Identification Number: UN1950
Proper Shipping Name: Aerosols
Hazardous Class or Division: 2.1
Packing Group: Limited quantity

Section 15: Regulatory Information

California Proposition 65: This product contains chemicals known to the State of California to cause cancer – Toluene (developmental female reproductive); Ethyl benzene (carcinogen)
U.S. State Right to Know: Zinc powder (New Jersey, Massachusetts, Pennsylvania)
Acetone (New Jersey, Massachusetts, Pennsylvania)
Toluene (New Jersey, Massachusetts, Pennsylvania)
Xylene (New Jersey, Massachusetts, Pennsylvania)
Butyl acetate (New Jersey, Massachusetts, Pennsylvania)
Ethyl benzene (New Jersey, Massachusetts, Pennsylvania)

Section 16: Other Information

Preparation Date: 16 January 2017
Date of Last Revision: 16 January 2017

This SDS format is in accordance with GHS. PowerWeld Inc. 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 PowerWeld. 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.