

# Safety Data Sheet

BroZinc

## SECTION I - IDENTIFICATION

**PRODUCT IDENTIFIER:** BroZinc  
**PRODUCT CODE:** 570000014-16AR  
**RECOMMENDED USE:** Galvanize Coating  
**RESTRICTIONS ON USE:** None known.  
**COMPANY NAME:** Brodi Specialty Products  
**COMPANY ADDRESS:** 3175 14th Avenue, Unit #1, Markham, ON L3R 0H1  
**COMPANY PHONE:** 905-475-6084  
**EMERGENCY PHONE:** 800-255-3924

## SECTION II – HAZARDS IDENTIFICATION

**CLASSIFICATION:** Flammable Aerosol: Category 1  
Gases Under Pressure: Liquefied Gas  
Skin Irritant: Category 2  
Eye Irritant: Category 2A  
Carcinogenicity: Category 2  
Specific Target Organ Toxicity (Single Exposure): Category 3  
Specific Target Organ Toxicity (Repeated Exposure): Category 2  
Aspiration Hazard: Category 1

**HAZARD STATEMENT(S): DANGER:** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin and serious eye irritation. Suspected of causing cancer. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

This product contains the following percentage of chemicals of unknown toxicity: N/A

**PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves, protective clothing and eye protection. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice or attention. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting. Dispose of contents and container in accordance with local, state and federal regulations.

**SYMBOL:**



**HAZARDS NOT OTHERWISE CLASSIFIED:** N/A

## SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Heptane	142-82-5	20-30%
Propane/n-Butane	68476-86-8	20-30%
Acetone	67-64-1	10-20%
Xylene	1330-20-7	1-5%
Ethyl benzene	100-41-4	0.1-1%

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## SECTION IV - FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention if irritation persists.

**INGESTION:** Rinse mouth out with water. Do not induce vomiting unless directed by medical authority. Keep head below hips if vomiting occurs. Seek immediate medical attention. Aspiration hazard. Never give anything by mouth to an unconscious person.

**INHALATION:** Move to fresh air. If breathing is difficult or unconscious, administer oxygen. If not breathing administer artificial respiration. Seek medical attention if irritation persists.

**SKIN:** Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation persists.

**ACUTE HEALTH HAZARDS:** Causes skin irritation including redness, burning and drying/cracking. Causes eye irritation including redness, tearing, and pain. Inhalation of vapors may cause nausea, dizziness and drowsiness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

**CHRONIC HEALTH HAZARDS:** May cause damage to the following organs: kidneys, liver, skin, CNS depression.

**NOTE TO PHYSICIAN:** Treatment of overexposure should be directed at the control of symptoms and the clinical condition. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

## SECTION V – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, and foam.

**UNSUITABLE EXTINGUISHING MEDIA:** Water jets or streams.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Shut off all sources of ignition. Use water spray to disperse vapor and cool fire exposed containers. Prevent run off from entering streams, sewers, or drinking water supply.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** EXTREMELY FLAMMABLE. Contents under pressure. Exposure to temperatures above 120 °F may cause bursting. Keep away from heat, sparks, open flames and other sources of ignition. Dense smoke, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and other oxides of carbon may be generated during a fire. Vapors heavier than air will settle in low lying areas and may travel to source of ignition and flash back. Vapors are heavier than air and can accumulate in low areas.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, various hydrocarbons.

## SECTION VI – ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT:** Refer to section VIII for proper Personal Protective Equipment.

**SPILL:** Eliminate all sources of ignition. Avoid contact with spilled material. Wear appropriate personal protective equipment. Clean up using rag or use some non-combustible material like vermiculite, sand or earth. Prevent spill from entering sewers, storm drains and natural waterways. Place waste in proper containers for disposal.

**WASTE DISPOSAL:** Dispose of in accordance with local, state and federal regulations. Do not dump in sewers. Wrap container and place in trash collection. Do not puncture, incinerate, or reuse container.

**RCRA STATUS:** Waste likely considered D001 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION VII – HANDLING AND STORAGE

**HANDLING AND STORAGE:** Do not use or store near heat, open flames or other sources of ignition. Wear proper personal protective equipment when using this product. Avoid contact with skin, eyes and clothing. Vapors may collect in low-lying areas. Use only with adequate ventilation. Do not inhale mist or vapor. Do not use or store with strong oxidizers. Store in a cool, dry area. Protect from sunlight. Store in a well ventilated area. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling.

**OTHER PRECAUTIONS:** Keep out of the reach of children. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not taste or swallow. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health.

**INCOMPATIBILITY:** Some plastics, strong oxidizing agents, acids, caustics, alkalis and chemically active metals.

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## SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Heptane	500 ppm	400 ppm
Propane/n-Butane	Not Established	1000 ppm
Acetone	1000 ppm	250 ppm
Xylene	100 ppm	20 ppm
Ethyl benzene	100 ppm	20 ppm

**ENGINEERING CONTROLS / VENTILATION:** Use only outdoors or in a well-ventilated area. Material is heavier than air. Material may concentrate in low lying areas. Normal, forced ventilation required to meet TLV requirements. Local exhaust ventilation is generally preferred.

**RESPIRATORY PROTECTION:** Use only in well-ventilated areas. If exposure levels are exceeded, then organic vapor cartridge respirator or SCBA will be needed.

**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses/goggles and chemical resistant gloves.

**ADDITIONAL MEASURES:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing spray. Do not touch eyes when using this product. Wash hands thoroughly with soap and water after use.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Gray aerosol spray.

**ODOR:** Solvent.

**ODOR THRESHOLD:** N/D

**pH:** N/A

**MELTING POINT/FREEZING POINT:** N/D

**INITIAL BOILING POINT AND BOILING RANGE:** N/D

**FLASH POINT:** N/D

**EVAPORATION RATE:** > 3 Fast

**FLAMMABILITY(solid/gas):** Extremely Flammable Aerosol

**UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:**

**LOWER FLAMMABILITY LIMIT:** N/D

**UPPER FLAMMABILITY LIMIT:** N/D

**EXPLOSIVE LIMIT LOWER (%):** N/D

**EXPLOSIVE LIMIT UPPER (%):** N/D

**VAPOR PRESSURE (mm Hg):** N/D

**VAPOR DENSITY (AIR=1):** N/D

**RELATIVE DENSITY (H<sub>2</sub>O=1):** 1.16 - 1.30 @ 77 °F (25 °C).

**SOLUBILITY(IES):** Moderate.

**PARTITION COEFFICIENT: n-OCTANOL/WATER (K<sub>ow</sub>):** N/D

**AUTOIGNITION TEMPERATURE:** N/D

**DECOMPOSITION TEMPERATURE:** N/D

**VISCOSITY:** N/D

## SECTION X – STABILITY AND REACTIVITY

**REACTIVITY:** If exposed to strong oxidizers, presents explosion hazard.

**CHEMICAL STABILITY:** Stable.

**POSSIBLE HAZARDOUS REACTIONS:** None known.

**CONDITIONS TO AVOID:** Temperatures greater than 122 °F and sources of ignition. Avoid incompatibles.

**INCOMPATIBLE MATERIALS:** Some plastics, strong oxidizing agents, acids, caustics, alkalis and chemically active metals.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and other decomposition products.

## SECTION XI – TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** **Heptane** (142-82-5): LD<sub>50</sub> (Oral, Rat) > 15000 mg/kg; LD<sub>50</sub> (Dermal, Rabbit) > 3160 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 4h) 103 mg/L. **Acetone** (67-64-1): LD<sub>50</sub> (Oral, Rat) 5800 mg/kg; LD<sub>50</sub> (Oral, Mouse) 3000 mg/kg; LD<sub>50</sub> (Oral, Rabbit) 5340 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 8h) 50100 mg/m<sup>3</sup>; LC<sub>50</sub> (Inhalation, Mouse, 4h) 44,000 mg/m<sup>3</sup>. **Xylenes**

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(1330-20-7) LD<sub>50</sub> (Oral, Rat) 4000 mg/kg; LD<sub>50</sub> (Dermal, Rabbit, 24h) 12126 mg/kg; LC<sub>50</sub> (Inhalation, Vapor, Mice) 5000 ppm.  
**Ethyl benzene** (100-41-4) LD<sub>50</sub> (Oral, Rat) 3500 mg/kg; LD<sub>50</sub> (Dermal, Rabbit) 15500 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 4h) 18 mg/L.

**ROUTES OF ENTRY:** Eyes, Inhalation, Skin

**EYES:** Causes irritation. May cause conjunctivitis with possible corneal injury.

**INGESTION:** Not a likely route of exposure under normal product handling conditions. May cause gastrointestinal irritation, nausea, diarrhea, vomiting. Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia or edema.

**INHALATION:** May cause dizziness, nausea, central nervous system (CNS) effects.

**SKIN:** Causes irritation, redness, itching, and pain. Prolonged contact may cause defatting of the skin and dermatitis.

**MEDICAL CONDITION AGGRAVATED:** Pre-existing skin and respiratory disorders.

**ACUTE HEALTH HAZARDS:** Causes skin irritation including redness, burning and drying/cracking. Causes eye irritation including redness, tearing, and pain. Inhalation of vapors may cause nausea, dizziness and drowsiness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

**CHRONIC HEALTH HAZARDS:** May cause damage to the following organs: kidneys, liver, skin, CNS depression.

**CARCINOGENICITY:** OSHA: No ACGIH: A3 - Animal Carcinogen NTP: No IARC: 2B - Possible OTHER: CA Prop 65

## SECTION XII – ECOLOGICAL INFORMATION

**ECOTOXICITY:** Toxic to aquatic life with long lasting effects. **Acetone** (67-64-1): LC<sub>50</sub> (*Oncorhynchus mykiss*, 96h) 5540 mg/L; EC<sub>50</sub> (*Daphnia magna*, 48h) 6100 mg/L; EC<sub>50</sub> (*Selenastrum quadricauda*, 8d) 7500 mg/L; EC<sub>50</sub> (*Psuedomonas putida*, 16h) 1700 mg/L. **n-Heptane** (142-82-5): EC<sub>50</sub> (*Daphnia magna*, 48h) 1.50 mg/L. **Xylenes** (1330-20-7): LC<sub>50</sub> (*Oncorhynchus mykiss*, 96h) 8 mg/L.

**PERSISTENCE AND DEGRADABILITY:** Component or components of this product are not biodegradable.

**BIOACCUMULATIVE POTENTIAL:** This product is not expected to bioaccumulate.

**MOBILITY IN SOIL:** This product is mobile in soil.

**OTHER ADVERSE EFFECTS:** None known.

## SECTION XIII – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of in accordance with local, state and federal regulations. Do not dump in sewers. Wrap container and place in trash collection. Do not puncture, incinerate, or reuse container.

**RCRA STATUS:** Waste likely considered D001 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION XIV - TRANSPORT INFORMATION

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN1950

**PACKING GROUP:** N/A

### AIR SHIPMENT

**PROPER SHIPPING NAME:** Aerosols, flammable.

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN1950

**PACKING GROUP:** N/A

### SHIPPING BY WATER:

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** Aerosols.

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN1950

**PACKING GROUP:** N/A

**ENVIRONMENTAL HAZARDS WATER:** Marine Pollutant.

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## SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:** All chemicals are listed or exempt.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** **Zinc** (7440-66-6) Reportable Quantity = 1000 pounds. **Acetone** (67-64-1) Reportable Quantity = 5,000 pounds.

**SARA 311/312 HAZARD CATEGORIES:** Flammable (gases, aerosols, liquids, solids). Gas under pressure. Skin corrosion or irritation. Serious eye damage or eye irritation. Carcinogenicity. Specific target organ toxicity (single or repeated exposure). Aspiration hazard.

**SARA 313 REPORTABLE INGREDIENTS:** **Xylenes** (1330-20-7). **Ethyl benzene** (100-41-4).

**CLEAN WATER ACT:** **Acetone** (67-64-1) is a hazardous substance.

**STATE REGULATIONS: California Proposition 65: WARNING:** This product can expose you to chemicals including Ethylbenzene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). **Heptane** (142-82-5): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, IL, MA, NJ, PA, RI. **Acetone** (67-64-1): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, DE, ID, ME, MA, MN, NJ, PA, RI, WA. **Xylene** (1330-20-7): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, DE, ID, ME, MA, MN, NJ, NY, PA, RI, WA. **Ethyl benzene** (100-41-4): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, DE, ID, IL, ME, MA, MN, NJ, NY, PA, RI, WA, WI.

**INTERNATIONAL REGULATIONS:** No information available.

**VOLATILE ORGANIC COMPOUNDS (VOC):** 58.9%

**NFPA HEALTH:** 2

**NFPA FLAMMABILITY:** 3

**NFPA REACTIVITY:** 1

**NFPA OTHER:** None

**HMIS HEALTH:** 2

**HMIS FLAMMABILITY:** 3

**HMIS REACTIVITY:** 1

**HMIS PROTECTION:** B

## SECTION XVI - OTHER INFORMATION

**PREPARATION BY:** Roberto Cerón

**DATE PREPARED:** 07/24/2013

**REVISION DATE:** 06/28/2022

N/A = Not Applicable; N/D = Not Determined

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