BWSZC – B/W ZINC WELD THRU COATING

Section 1: PRODUCT IDENTFICATION

Product Name	BodyworX Spray On Zinc Weld-Thru Primer	**Other names**	–
GPI Product code/s	BWSZC	**Recommended use/s**	Coating.
Manufacturer	Dominion Sure Seal Ltd. 6175 Danville Road Mississauga Ontario L5T 2H7 Canada Phone: +1 (905) 670 5411 Fax: +1 (905) 670 5174 www.dominionsureseal.com	**Importer/Supplier**	GPI Automotive Products Pty. Ltd. 275 Wellington Road Mulgrave VIC 3150 Australia Phone: +61 3 8541 7500 Fax: +61 3 9562 0789 www.gpi.com.au
Emergency contact	Poisons Information Centre (Australia)	Phone: 13 11 26	www.austin.org.au/poisons

Section 2: HAZARD IDENTIFICATION

Hazard classification	**HAZARDOUS SUBSTANCE**	**DANGEROUS GOODS**	According to Safe Work Australia and the ADG Code.
Label elements			
Signal word	**DANGER**		
Hazard statements	H222: Extremely flammable aerosol. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H360: May damage fertility or the unborn child. H373: May cause damage to respiratory system 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: Pressurised container: do not pierce or burn, even after use. P260: Do not breathe gas. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves, protective clothing and eye protection. P301+P310+P331: IF SWALLOWED: Immediately call a poison centre/doctor. Do NOT induce vomiting. P302+P352: IF ON SKIN: Wash with plenty of water. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. P308+P313: IF exposed or concerned: Get medical advice/attention. P312: Call a POISON CENTRE or doctor/physician if you feel unwell. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up. P410: Protect from sunlight. P412: Do not expose to temperatures exceeding 50°C. P501: Dispose of contents/container in accordance with applicable local, regional and/or national regulations.		

Section 2: HAZARD IDENTIFICATION

Health hazards	Flammable Aerosols, Category 1 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2 Skin Sensitisation, Category 1 Reproductive Toxicity, Category 1B Specific Target Organ Toxicity – Single exposure, Category 3 (narcotic effects) Specific Target Organ Toxicity – Repeated exposure, Category 2 Aspiration Hazard, Category 1

Section 3: CHEMICAL COMPOSITION

Ingredient name	Synonym/s	CAS number	Proportion (% weight)
Acetone	–	67-64-1	20 – 40
Propane	–	74-98-6	10 – 20
Toluene	–	108-88-3	10 – 20
Aluminium	–	7429-90-5	2.5 – 10
Isobutane	–	75-28-5	2.5 – 10
Methyl ethyl ketone	–	78-93-3	2.5 – 10
Zinc (metallic)	–	7440-66-6	2.5 – 10
Butyl benzyl phthalate	–	85-68-7	1 – 2.5
Butyl methacrylate	–	97-88-1	0.1 – 1
n-methyl-2-pyrrolidinone	–	872-50-4	0.1 – 1
Zinc oxide	–	1314-13-2	0.1 – 1
Other components below reportable levels			2.5 – 10

Section 4: FIRST AID MEASURES

General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible)	
Route of exposure	**Symptoms caused by exposure**	**Description of necessary first aid measures**
Eye contact	Causes serious eye irritation. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.	If eye irritation persists: Get medical advice/attention.
Skin contact	Causes skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Inhalation	Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Headache. May cause damage to organs through prolonged or repeated exposure by inhalation.	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
Ingestion	Nausea, vomiting. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.	Call a physician or poison control centre immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Medical attention and special treatment	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media	Alcohol resistant foam, powder, carbon dioxide.
Unsuitable	Water.
Specific hazards arising from the chemical	Contents under pressure. Pressurised container may explode when exposed to heat or flame.

Section 5: FIRE FIGHTING MEASURES (continued)

Special protective equipment and precautions for fire fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. In the event of fire and/or explosion do not breathe fumes.
Fire/explosion hazard	Extremely flammable aerosol.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustible (wood, paper, oil etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small spills: wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of this SDS.

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Pressurised container: do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin and clothing. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage	Leve 2 Aerosol. Store locked up. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see section 10 of this SDS).
Storage incompatibilities	–
Other information	–

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards	**TWA** (time-weighted average)		**STEL** (short-term exposure limits)		**Notes**
	mg/m^3	**ppm**	**mg/m^3**	**ppm**	
Acetone	590	250	–	500	–
Aluminium (respirable fraction)	5	–	–	–	–
Isobutane	1900	800	–	1000	–
Methyl ethyl ketone	590	200	885	300	–
Toluene	375	100	560	150	–
Propane	1800	1000	–	–	–
Zinc oxide	5	–	10	–	–

Appropriate engineering controls	Eye wash facilities and emergency shower must be available when handling this product.
Eye and face protection	If contact is likely, safety glasses with side shields are recommended.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

Skin protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing, when necessary. Wear appropriate thermal protective clothing, when necessary.
Respiratory protection	If permissible levels are exceeded use mechanical filter/organic vapour cartridge or an air-supplied respirator.
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating., drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state	Aerosol gas.	**Specific gravity**	0.702 estimated
Odour	–	**Solubility**	–
Odour threshold	–	**Partition coefficient: n-octanol/water**	–
pH	–	**Auto-ignition temperature**	470.56°C
Melting point/freezing point	–	**Decomposition temperature**	–
Boiling point/boiling range	72.26°C	**Viscosity**	–
Flash point	-104.4°C (closed cup)	**Specific heat value**	–
Evaporation rate (n-butyl acetate = 1)	–	**Particle size**	–
Flammability	–	**Volatile organic compounds content**	–
Upper/lower flammability limits	Lower: 2% estimated Upper: 10.5% estimated	**% volatile**	–
Vapour pressure	–	**Saturated vapour concentration**	–
Vapour density	–	**Release of invisible flammable vapours and gases**	–

Section 10: STABILITY AND REACTIVITY

Reactive hazard	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid temperature exceeding the flash point. Contact with incompatible materials.
Incompatible materials and possible hazardous reactions	Acids, strong oxidising agents, nitrates, ammonia, amines, isocyanates, fluorine, caustics, chlorine.
Hazardous decomposition products	Hazardous polymerisation will not occur. No hazardous decomposition products are known.

Section 11: TOXICOLOGICAL INFORMATION

Ingredient	Toxicity	Irritation
Acetone	Oral (rat) LD50: 5800 mg/kg (2.2 mL/kg) Dermal (rabbit) LD50: > 7426 mg/kg (> 9.4 mL/kg/24hrs)	Inhalation (rat) LC50: 132 mg/L/3hrs (55700 ppm/3hrs)
Aluminium	Oral (rat) LD50: > 2000 mg/kg	Inhalation (rat) LC50: > 0.888 mg/L/4hrs (7.6 mg/L if < 1L)
Butyl benzyl phthalate	Oral (rat) LD50: 2330 mg/kg	–
Butyl methacrylate	Oral (rat) LD50: > 17900 mg/kg Dermal (rabbit) LD50: 10181 mg/kg	–
Isobutane	–	Inhalation (rat) LC50: 1355 mg/L
Methyl ethyl ketone	Oral (rat) LD50: 2054 mg/kg Dermal (rabbit) LD50: > 10 mL/kg/24hrs	–
n-methyl-2-pyrrolidinone	Oral (rat) LD50: 4150 mg/kg Dermal (rat) LD50: > 5000 mg/kg/24hrs	Inhalation (rat) LC50: > 5.1 mg/L/4hrs

Section 11: TOXICOLOGICAL INFORMATION (continued)

Propane	–	Inhalation (rat) LC50: 658 mg/L/4hrs
Toluene	Oral (rat) LD50: > 5000 mg/kg Dermal (rabbit) LD50: > 5000 mg/kg/24hrs	Inhalation (rat) LC50: 25.7 mg/L/4hrs (5879 – 6281 ppm/6hrs)
Zinc (metallic)	Oral (rat) LD50: > 2000 mg/kg	Inhalation (rat) LC50: > 5410 mg/m^3
Zinc oxide	Oral (rat) LD50: > 5000 mg/kg Dermal (rabbit) LD50: > 2000 mg/kg/24hrs	Inhalation (rat) LC50: > 5700 mg/m^3

Acute toxicity	May be fatal if swallowed and enters airways. Narcotic effects. May cause an allergic skin reaction.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Not a respiratory sensitiser. May cause an allergic skin reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC.
Reproductive toxicity	May damage fertility or the unborn child.
STOT – single exposure	May cause drowsiness and dizziness.
STOT – repeated exposure	Respiratory system. Skin. Kidneys. Central nervous system. Eyes. Liver. May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.
Chronic effects	May cause damage to organs through prolonged or repeated exposure.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Ingredient	**Ecotoxicity**
Acetone	Crustacea EC50 (*Daphnia magna*): 21.6 – 23.9 mg/L (48 hours) Fish LC50 (*Onchorhynchus mykiss*): 4740 – 6330 mg/L (96 hours)
Aluminium	Fish LC50 (*Onchorhynchus mykiss*): 0.16 mg/L (96 hours)
Butyl benzyl phthalate	Crustacea EC50 (*Daphnia magna*): > 0.96 mg/L (48 hours) Fish LC50 (*Cymatogaster aggregata*): 0.47 – 0.56 mg/L (96 hours)
Methyl ethyl ketone	Crustacea EC50 (*Daphnia magna*): 520.0001 mg/L (48 hours) Fish LC50 (*Cyprinodon variegatus*): > 400 mg/L (96 hours)
n-methyl-2-pyrrolidinone	Algae LC50: 520.0001 mg/L (72 hours) Crustacea EC50 (*Daphnia magna*): 4897 mg/L (48 hours)
Toluene	Algae LC50: 433.0001 mg/L (72 hours) Crustacea EC50 (*Daphnia magna*): 5.46 – 9.83 mg/L (48 hours) Fish LC50 (*Onchorynchus kisutch*): 8.11 mg/L (96 hours)
Zinc (metallic)	Crustacea EC50 (*Daphnia magna*): 2.8 mg/L (48 hours) Fish LC50 (*Onchorhynchus mykiss*): 0.56 mg/L (96 hours)
Zinc oxide	Fish LC50 (*Pimephales promelas*): 2246 mg/L (96 hours)
Persistence and degradability	–
Bioaccumulative potential	Partition coefficient n-octanol/water (log Kow): Acetone -0.24 Butyl benzyl phthalate 4.91 Butyl methacrylate 2.88 Isobutane 2.76 Methyl ethyl ketone 0.29 n-methyl-2-pyrrolidinone -0.54 Propane 2.36 Toluene 2.73
Mobility in soil	–
Other adverse effects	No other adverse environmental effects are expected from this component.

Section 13: DISPOSAL CONSIDERATIONS

Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Disposal of contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Environmental regulations	–

Section 14: TRANSPORT INFORMATION

Labels required

HAZCHEM code **3Y**

Regulation	UN number	Proper shipping name	DG Class	Packing Group	Notes
ADG (road)	1950	Aerosols, flammable	2.1	–	Special provisions: N82 Packaging exceptions: 306
ADR (rail)	1950	Aerosols, flammable	2.1	–	
IMDG (sea)	1950	Aerosols, flammable	2.1	–	EMS: F-D, S-U Marine pollutant: Yes
IATA (air)	1950	Aerosols, flammable	2.1	–	

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product

AICS (Australian Inventory of Chemical Substances)	One or more components of this product are not listed or exempt.
Poisons schedule number	–

Section 16: OTHER INFORMATION

Date of SDS preparation	01/01/2019	This SDS is valid for 5 years from the date of preparation
Notice to reader	All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date prepared (above). No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet. The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The GPI Group and GPI Automotive Products shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of this product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected by the hazards described in this sheet and of any precautions that should be taken.	

END OF SDS