

**MATERIAL SAFETY DATA SHEET FOR
BOSS BRUSH GALV PAINT (ZINC RICH PRIMER)**



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product type:	Paint
Intended use:	Finish for Brush or Spray Application
Trade Name:	BOSS Brush Galv Paint (Zinc Rich Primer)
Supplier of product:	The BSS Group plc
Registered Office:	Fleet House, Lee Circle, Leicester, LE1 3QQ
Telephone/Fax Numbers:	0116 262 3232 / 0116 253 1343
E-mail Address	reception@bssgroup.com
Web site Address	www.bss-group.co.uk

2. HAZARD IDENTIFICATION

Classification (EX 1272/2008)	
Physical and Chemical Hazards:	Flam. Liq. 3 – H226; Water-react. 1 – H260
Human Health:	Not Classified
Environment:	Aquatic Acute 1 – H400; Aquatic Chronic 1 – H410
Classification (1999/45/EEC)	F; R15. N; R50/53. R10.

Label in Accordance with (EC) No. 1272/0008	
Signal Word	Danger
Hazard Statements	
H226	Flammable liquid and vapour
H260	In contact with water releases flammable gases which may ignite spontaneously
H410	Very toxic to aquatic life with long lasting effects
Precautionary Statements	
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P273	Avoid release to the environment
P370	In case of fire:
P378a	Use alcohol-resistant foam, carbon dioxide or dry powder for extinction
P402 + 404	Store in a dry place. Store in a closed container
P501	Dispose of contents/container to registered waste disposal company

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2. HAZARD IDENTIFICATION (cont)

Supplementary Precautionary Statements	
P223	Keep away from any possible contact with water because of violent reaction and possible flash fire
P231 + 232	Handle under inert gas. Protect from moisture.
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilation/fighting/lighting/...../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P280	Wear protective gloves/protective clothing/eye protection/face protection
P303 + 361 + 353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P335 + 334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages
P391	Collect spills
P403 + 235	Store in a well-ventilated place. Keep cool

3. COMPOSITION/INFORMATION ON INGREDIENTS.

Main Constituents:	Concentration/ Range (%)	Classification (67/54/EEC)	EC No	CAS No
Calcium Oxide	<1	Xi; R37/38, R41	215-138-9	1305-78-8
Solvent Naphtha (Petroleum), Light Arom; Low Boiling Point Naphtha	5-10	Xn; R65 N; R51.53 R66, R67, R10	265-199-0	64742-95-6
Xylene	5-10	Xn; R20/21 Xi; R38 R10 Flam. Liq. 3 – H226 Acute Tox. 4 – H312 Acute Tox. 4 – H332 Skin Irrit. 2 – H315	215-535-7	1330-20-7
Zinc Powder – Zinc Dust (Stabilised)	60-100	N; R50/53		7440-66-6
(*) For Full Text see Section 16				

4. FIRST AID MEASURES

General:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, please in the recovery position and seek medical advice.
Ingestion:	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
Skin Contact:	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleanser. Do NOT use solvents or thinners
Eye Contact:	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

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4. FIRST AID MEASURES Cont.

Most Important Symptoms and Effects, both Acute and Delayed	
General Information:	
The severity of the symptoms described will vary dependant of the concentration and length of exposure.	
Inhalation:	Vapours may cause headache, fatigue, dizziness and nausea
Ingestion:	Gastrointestinal symptoms, including upset stomach
Skin Contact:	Prolonged contact may cause redness, irritation and dry skin
Eye Contact:	Extreme irritation of eyes and mucous membranes, including burning and tearing
Indication of any Immediate medical Attention and Special treatment Needed:	No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt GET MEDICAL ATTENTION PROMPTLY!

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Extinguish with alcohol resistant foam, CO ₂ , dry powder, or water fog. NOT to be used – water jet
Unsuitable Extinguishing Media:	Do not use water jet as an extinguisher, as this will spread the fire.

Special Hazards Arising from the Substance or Mixture	
Hazardous Combustion Products:	When water is added, the product reacts with a number of metals forming hydrogen gas, which may form explosive vapour/air mixtures. During fire, toxic gases (CO, CO ₂ , NO _x) are formed. Unusual Fire & Explosion Hazards FLAMMABLE
Specific Hazards:	The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. In case of fire, toxic gases may be formed (CO _x , NO _x)

Advice for Fire fighters	
Special Fire Fighting Procedures:	Avoid breathing fire vapours. Containers close to fire should be removed immediately or cooled with water. Keep run-off water out of sewers and water sources. Dike for water control. Protective equipment for fire-fighters. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition.
Environmental Precautions:	Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities
Methods and Material for Containment and Cleaning Up:	For waste disposal, see section 13. Absorb in vermiculite, dry sand or earth and place into containers.
Reference to Other Sections:	For personal protection, see section 8

7. HANDLING AND STORAGE:

Precautions for Safe Handling:	Risk of vapour concentration on the floor and in low-lying areas. Avoid eating, drinking and smoking when using the product. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above acceptable level.
Conditions for Safe Storage, including any incompatibilities:	Up to 50litres of liquids with a flash point below 32 deg C may be kept in a workroom provided they are kept in closed containers in a marked, fire-resisting cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers. Store away from: Acids, Alkalis, Oxidising material. Store in closed original container at temperatures between 5°C and 25°C Storage Class – Flammable liquid storage


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
Calcium Oxide	WEL		2 mg/m3			
Xylene	WEL	50 ppm(Sk)	220 mg/m3(Sk)	100 ppm(Sk)	441 mg/m3(Sk)	

Exposure Controls
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentration of solvent vapours and/or particulates below the relevant Occupational Exposure Limit Values, suitable respiratory protective equipment should be worn (see Occupational Controls below).

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION Cont.

Exposure Controls	
Protective Equipment:	
Process Conditions:	Provide eyewash station
Engineering Measures:	Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours
Respiratory Equipment:	Wear suitable respiratory protection.
Hand Protection:	Nitrile gloves are recommended.
Eye Protection:	Wear approved safety goggles
Other Protection:	Use barrier creams to prevent skin contact
Hygiene Measures:	Wash at the end of each work shift and before eating, smoking and using the toilet.
Skin Protection:	Wear apron or protective clothing in case of splashes

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous Liquid
Colour:	Misc. colours
Odour:	Solvent
Solubility in water	Immiscible
Initial Boiling Point and Boiling Range:	138 760 mm Hg
Relative Density:	2.813 20 DEG C
Vapour Density (air=1):	>1.0
Vapour Pressure:	1.5 mm Hg 20 DEG C
Viscosity:	4.5-5.0P 20 DEG C
Flash Point (°C):	>21 Sh CC (Setaflash closed cup)

Other Information:	
VOC Content:	493g/litre

10. STABILITY AND REACTIVITY

Reactivity:	When water is added, the product reacts with a number o metals forming hydrogen gas, which may for explosive vapours/air mixtures.
Chemical Stability:	Stable under normal temperature conditions and recommended use
Possibility of Hazardous Reactions:	Contact with water liberates extremely flammable gases. Hazardous Polymerisation Will not polymerise
Conditions to Avoid:	Avoid contact with Oxidising materials, strong alkalis, strong mineral acids. Avoid contact with water
Incompatible Materials:	Avoid contact with strong alkalis, strong oxidising substances
Hazardous Decomposition Products:	In case of fire, toxic gases (CO, CO2, NOx) may be formed.

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11. TOXICOLOGICAL INFORMATION

Toxicological Information:	No data recorded
General Information	
Contains small amounts of organic solvents. Excessive use of the product in areas with inadequate ventilation may result in hazardous vapour concentrations.	
Inhalation :	Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Ingestion:	May cause discomfort if swallowed
Skin Contact:	Prolonged contact may cause redness, irritation and dry skin.
Eye Contact:	Splashes in the eyes may cause irritation and reversible local damage
Health Warnings:	Prolonged or repeated contact leads to drying of skin
Route of Entry:	Inhalation, skin absorption, ingestion, skin and/or eye contact
Target Organs:	Kidneys, liver, central nervous system
Medical Symptoms:	High concentration of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

12. ECOLOGICAL INFORMATION



Ecotoxicity:	There is no data on the ecotoxicity of this product
Persistence and Degradability	
Degradability:	The product is biodegradable. Volatile substances are degraded in the atmosphere within a few days
Bioaccumulative Potential:	Bioaccumulative potential. The product contains potentially bioaccumulating substances
Mobility in Soil:	The product is insoluble in water and will spread on the water surface
Other adverse effects:	Not known

13. DISPOSAL CONSIDERATIONS

General Information:	Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority
Waste Treatment Methods:	Dispose of waste and residue in accordance with local authority requirements.

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14. TRANSPORT INFORMATION

UN No (ADR/RID/ADN):	1263
UN No (IMDG)	1263
Proper Shipping Name:	PAINT
Hazard Class (ADR/RID/ADN):	3 Class 3: Flammable Liquids
IMDG Class	3
Transport Labels:	
ADR/RID/ADN Packing Group:	III
IMDG Packaging Group:	III
Environmental Hazards:	Environmentally Hazardous Substance/Marine Pollutant 

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulation/Legislations Specific for the Substance of Mixture

UK Regulatory references:

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716). Control of Substances Hazardous to Health.

EU Legislations:

Regulations (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulations (EEC) No 793/93 and Commission regulations (EC) No 1488/94 as well as Council Directive 76/769/EEC and commission Directives 91/155/EEC, 93/105/EC and 2000/21/EC, including amendments.

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16. OTHER INFORMATION

Text of the R phrases listed in Section 2	
R Phrase No	Text
R10	Flammable
R20/21	Harmful by inhalation and in contact with skin
R37/38	Irritating to eyes, respiratory system and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R64	Harmful: may cause lung damage in swallowed
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
Hazard Statements in Full	
H315	Causes skin irritation
H226	Flammable liquid and vapour
H312	Harmful if inhaled
H332	Harmful in contact with skin

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.