

## ZINC GALVANISING SPRAY PRODUCT SAFETY DATA SHEET

### 1. IDENTIFICATION OF PRODUCT AND USES

**PRODUCT NAME:** Zinc Galvanising Spray.  
**PRODUCT TYPE:** A hand-held pre-pressurised aerosol  
**SPECIFIED USE:** Protective exterior coating.

### 2. COMPOSITION INFORMATION

**ACTIVE CONTENTS:** Resins, pigments (aluminium flake and zinc powder)  
**OTHER CONTENTS:** Organic solvents

INGREDIENTS	CAS NO	INDEX	CLASSIFICATION	RANGE
Xylene	1330-20-7	215-535-7	Xn,Xi,R10,R20/21,R38	1-5%
Butoxy Ethanol	111-76-2	203-905-0	Xn,R20/21/22,Xi,R37	<5%
Acetone	67-64-1	200-662-2	F,R11,Xi,R36,R66,R67	20-40%
Pigment	Blend		None	5-10%
Resin	n/a		None	5-15%
Solvent naphtha (petroleum)	64742-95-6	265-199-0	R45,65,S53,45	<5%
Methoxy Propanol	000107-98-2	203-539-1	R10,S(2),24	<5%
Butane	106-97-8	203-448-7	F,R12,S(2),9,16	10-30%
Propane	74-98-6	200-827-9	F,R12,S(2),9,16	10-30%

### 3. HAZARD IDENTIFICATION / SAFETY PRECAUTIONS

**THIS IS AN AEROSOL PRODUCT - USE ONLY IN WELL-VENTILATED AREAS.**

The contents are **FLAMMABLE** and may be **HARMFUL** by deliberate prolonged inhalation or ingestion. Hydrocarbon propellant is an asphyxiant if there is insufficient ventilation. This would constitute abuse of the product.

ALWAYS WASH HANDS AFTER USE. Repeated exposure may cause skin dryness or cracking.

KEEP IN A SAFE PLACE AWAY FROM CHILDREN.

**FLAMMABLE** - pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 degrees C. Do not spray onto a naked flame or any incandescent material, hot surface or unprotected electrical equipment.

DO NOT BREATHE SPRAY MIST. Vapours may cause drowsiness and dizziness.

DO NOT SPRAY NEAR EYES. Irritating to eyes.

ALWAYS READ CONTAINER WARNINGS.

### 4. FIRST AID MEASURES

**INHALATION:** Asphyxiation by butane will precede any toxicological effects of the active elements. Remove the patient to fresh air and treat symptomatically.

**SKIN CONTACT:** Wash with soap and water. Mild irritation may occur. Repeated contact may cause skin dryness and cracking.

**EYE CONTACT:** **NEVER USE AEROSOLS NEAR EYES/MUCOUS MEMBRANES.** Flush with copious quantities of water. Seek medical advice. Product is classified as irritating to eyes.

**INGESTION:** Unlikely. May cause nausea and discomfort. Carry out a gastric lavage to reduce discomfort. The contents would tend to be absorbed by the body with no significant effects, particularly in these concentrations. Treat symptomatically. Seek medical advice and show the container.

## **5. FIRE FIGHTING MEASURES**

Pressurised aerosols should not be exposed to temperatures exceeding 50° C. Above this, containers may explode and the resultant flammable mixture will burn to produce CO<sub>2</sub>.

Use water to cool undamaged stock only. Avoid contamination of the water courses where damaged stock is leaking.

EXTINGUISHING MEDIA: CO<sub>2</sub>, BCF, dry powder, sand or earth.

For larger fires use foam, water fog or spray, avoiding contamination.

POSITIVE PRESSURE BREATHING APPARATUS SHOULD BE USED.

## **6. ACCIDENTAL RELEASE MEASURES**

**INITIAL SPILLAGE WOULD BE FLAMMABLE.** Spillage is unlikely in large quantities with an aerosol product. Keep damaged containers away from sources of ignition and in well ventilated areas. Contents may cause staining and it should be expected that marks will not be able to be removed.

**Environment.** In the concentrations within 1-1000 cans the components would not present an environmental hazard as most of the product would quickly evaporate, leaving only the residue.

**Cleaning.** In small quantities any liquid should be absorbed into a suitable media, such as sand and disposed of safely. The residue should be washed away with soapy water, though staining should be expected.

## **7. HANDLING AND STORAGE**

**Handling.** Handle carefully. In general handling aerosols should not be considered as hazardous.

**Storage.** Always store aerosols away from sources of heat, including direct sunlight and in dry conditions.

Avoid extremes of temperature and moisture. A stable, cool, dry ambient environment is most suitable. Avoid contamination with other products.

The containers will not last indefinitely even when stored in a cool dry area, they should be inspected periodically during long-term storage. Note container warnings.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Supplier recommends 600ppm total hydrocarbon based on composition. As with all aerosols, the products should only be used in well-ventilated areas, but responsible use is not potentially harmful.

**Respiratory protection.** If ventilation is not possible, then suitable respiratory protection is essential if there is a risk of solvent vapour concentrations. Use organic/inorganic vapour filters. Vapours may cause drowsiness or dizziness.

**Hand Protection.** Repeated exposure may cause skin cracking or dryness, gloves may be required.

**Eye Protection.** AVOID SPRAYING NEAR EYES. Irritating to eyes. If there is a risk of eye contact wear glasses, goggles or face-shield.

**Skin Protection.** Repeated exposure may cause skin cracking or dryness, covering of exposed skin may be required.

In general the aerosol product is a convenient and safe method of supply. Only in continuous or repeated usage conditions should personal protective measures be required or exposure controls considered.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

As the product is an aerosol, it is an aerosol container with no potential properties, provided the container warnings are observed. **Details apply to the liquid phase of the product only** (propellant gas will evaporate immediately):

<b>Appearance:</b>	Matt paint
<b>Odour:</b>	Solvent
<b>pH:</b>	Not applicable.
<b>Boiling Point:</b>	>60°C
<b>Melting Point:</b>	<-20°C
<b>Flash Point:</b>	Nominally 0°C
<b>Flammability:</b>	Highly flammable liquid.
<b>Auto-flammability:</b>	Unknown for blend.
<b>Explosive Properties:</b>	None
<b>Oxidising Properties:</b>	None
<b>Vapour Pressure:</b>	Unknown for blend.
<b>Relative Density:</b>	0.86kg/m <sup>3</sup>
<b>Solubility:</b>	Not water soluble. Re-dispersible in aromatic solvents or ketones.

## **10. STABILITY AND REACTIVITY**

The container is inherently stable under instructed conditions for a reasonable period of time (at least 24-36 months).

**AVOID** extremes of temperature, including direct sunlight and extreme freezing. Avoid exposure to moisture, which may cause container deterioration and pH, where acidity may damage container integrity.

Avoid sudden impacts, which may damage container integrity.

Avoid contact with water, acids, high temperatures.

Container corrosion may occur with time and damaged containers should be disposed of before any danger is evident.

Flammable, liquid contents should be considered generally not reactive.

## **11. TOXICOLOGICAL INFORMATION**

**THIS IS DESIGNED FOR EXTERNAL USE ONLY.**

Essentially, when used in this aerosol form, there are no potential toxic effects. The data is as follows:

ACETONE LD50 5800mg/kg oral rat, LDLo 1159mg/kg unreported route of access in man

BUTANE/ PROPANE The Occupational Exposure Standard is 600ppm (1430 mgm)

Used correctly in aerosol form, all components can be considered to have a low order of toxicity (LD50 oral rat 500mg/kg, skin 3000mg/kg). Deliberate inhalation may cause severe pulmonary and breathing difficulty, dizziness, drowsiness (narcosis) and headaches (but this is unlikely in normal usage), and would constitute abuse.

Skin and eye irritation may result from continued exposure to vapours when used in areas of poor ventilation, or when working in close proximity to the spray for prolonged periods, and suitable steps should be taken to avoid such conditions.

Constituent products have shown no conclusive carcinogenic or mutagenic effects in long term tests.

## **12. ECOLOGICAL INFORMATION**

This relates to the contents only, see Disposal.

The product will evaporate quickly to the air. A coloured liquid, easily absorbed, will evaporate and leave a solid. The solid will present no other significant hazards, with no dangerous products arising from degradation.

**Mobility** will be very slow.

**Degradation** will be relatively slow though ultimately almost complete.

**Accumulation** is unlikely once physical breakdown commences.

**Short and long term effects** should not be considered significant. Very short term damage to aquatic and soil organisms may occur in large spillage (1000+ containers) though this should disperse quickly (especially if absorbent material is used). No effects on plants or animals are indicated. There is no ozone depletion, ozone creation or global warming potential. Water treatment plants would not be affected by small to medium volumes of this material.

## **13. DISPOSAL CONSIDERATIONS**

The container should be totally discharged and disposed of as hazardous waste

**SEE CONTAINER WARNINGS.** i.e. do not puncture or incinerate/burn, even after use. Dried material is non-hazardous.

## **14. TRANSPORT INFORMATION**

**UN NUMBER:** UN 1950 IMDG page 2120

**HAZARD CLASS:** 2.1 For Sea Transport. Not classified as hazardous for road transport in UK (ADR).

**UK TRANSPORT DESCRIPTION:** FLAMMABLE AEROSOLS (capacity less than 1 litre).  
LIMITED QUANTITIES

**UK TRANSPORT CLASSIFICATION:** MISCELLANEOUS GOODS

## 15. REGULATORY INFORMATION

The COSHH Regulations apply in the UK.

The CHIP Regulations apply in the UK.

The Environmental Protection Act Regulations apply in the UK.

**SYMBOLS:** F+, Xi, Xn.

### RISK/SAFETY PHRASES:

F+	Flammable. Keep out of reach of children. Protect from sunlight and do not expose to temperatures exceeding 50 degrees C. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material. (Aerosol safety phrases).
Xi	Irritant
Xn	Harmful
R10	Flammable
R11	Highly flammable
R12	Extremely Flammable
R20	Harmful by inhalation
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36	Irritating to eyes
R37	Irritating to respiratory system
R36/37/38	Irritating to eyes, respiratory system and skin
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
S(2)	Keep out of the reach of children
S1/2	Keep locked-up and out of reach of children
S9	Keep container in a well ventilated place
S16	Keep away from sources of ignition – no smoking
S24	Avoid contact with skin
S24/25	Avoid contact with skin and eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S29	Do not empty into drains
S37/39	Wear suitable gloves and eye/face protection
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

## 16. OTHER INFORMATION

This is an aerosol product and should be used carefully.

It represents no greater dangers than any other aerosol product and all regulations applicable are general industry guidelines. The marks are non-penetrating and non-harmful.

The information included is all that available for the component products at this time.

The information contained herein is based upon the current state of our knowledge.

**SINCE THE STORAGE, APPLICATION AND DISPOSAL OF THESE PRODUCTS IS NOT WITHIN THE CONTROL OF THE COMPANY, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFETY IN TERMS OF ALL ASPECTS RELATING TO THEIR PRODUCTS. THE COMPANY ACCEPTS NO LIABILITY FOR AND MAKES NO CLAIMS REGARDING THE USES, QUALITIES OR COMPONENTS OF THIS PRODUCT, WHICH MAY VARY FROM COUNTRY TO COUNTRY.**

**ALWAYS OBSERVE ALL CONTAINER AND DATA SHEET WARNINGS  
ALWAYS READ THE LABEL BEFORE USE.  
February 20, 2004**

Head Office:  
Units A& B · Meyrick Owen Way  
The Dockyard  
Pembroke Dock · SA72 6WS · UK  
Tel: +44 (0)1646 683584  
Fax: +44(0)1646 621392

Registered Office:  
Grainger Tubolt Ltd  
Llanion Works · Llanion Park  
Pembroke Dock · SA72 6DY · UK  
Incorporation Number:  
1539451 (Cardiff)