

SAFETY DATA SHEET

Date: April 2002

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1. Identification of the substance/preparation and company

1.1 Product/trade name: **GALVANIZING SPRAY AEROSOL**

1.2 Name, address and telephone number of supplier:

Stevens Industrial Services
Unit 4, Littleburn Industrial Estate
Langley Moor
Durham DH7 8JE, England
Tel: (0191) 378 1786
Fax: (0191) 378 2190

2. Composition and information on ingredients

2.1 Ingredients:

C.A.S. No.	Substance	Percentage	Health	Risk
67-64-1	Acetone	10%-30%	Xi	36, 66/67
64742-95-6	Solvent Naphtha (Petroleum) Light Aromatic	1% -5%	Xn	65
1330-20-7	Xylene	30%-60%	Xn	20/21, 38
74-98-6	Propane	10%-30%		
106-97-8	Butane	5%-10%		
75-28-5	IsoButane	1%-5%		

3. Hazards Identification

3.1 Precautions : Extremely Flammable. Harmful by Inhalation and in contact with skin. Irritating to Eyes and Skin

4. First Aid Measures

- 4.1 Skin : Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if discomfort continues.
- 4.2 Eyes : Rinse the eye with water immediately. Remove victim from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye-lids. Continue to rinse for at least 15 minutes. Obtain medical attention promptly if symptoms occur after washing.
- 4.3 Ingestion : DO NOT INDUCE VOMITING. Obtain medical attention immediately. Provide rest, warmth and fresh air.
- 4.4 Inhalation : Move the exposed person to Fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% pure oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

5. Fire Fighting Measures

- 5.1 Suitable Extinguishing media : Foam, Dry Chemical Powder, Sand, Dolomite, Water Spray, fog or mist.
- 5.2 Special Fire Fighting measures : Containers close to Fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.
- 5.3 Unusual Fire & Explosion Hazards : Aerosol cans may explode in fires. Risk of explosion if heated.

6. Accidental Release Measures

- 6.1 Spill Cleanup Methods : Extinguish all sources of ignition. Avoid sparks, flames, heat and smoking. Ventilate the area. Wear necessary protective clothing. If leakage cannot be stopped, evacuate area.

7. Handling and Storage

- 7.1 Handling : Keep containers away from heat, sparks and open flame. If containers are ruptured, ventilate the area well. Avoid breathing vapours. Read and follow manufacturer's recommendations.
- 7.2 Storage : Avoid exposing the container and/or packaging to temperatures in excess of 50°C. Keep in cool, dry ventilated storage and closed containers. Avoid exposing the container to direct sunlight or heat sources with a naked flame. Keep container closed until ready for use to avoid accidental content release. Do not smoke whilst using the product.
- 7.3 Advice for Fire and Explosion protection : Keep away from ignition sources or build up of heat. Do not smoke. Avoid exposing the container and/or packaging to temperatures in excess of 50°C.

8. Exposure Controls and Personal Protection

- | 8.1 | Ingredient name | : | CAS No | STD | LTEL
(8 Hrs.) | STEL
(15min) |
|-----|---|---|---|--------|-----------------------|------------------------|
| | Xylene | : | 1330-20-7 | O.E.S. | 100 ppm (Sk) | 150ppm (Sk) |
| | Solvent Naphtha (Petroleum) | : | 64742-95-6 | O.E.S. | 250mg.m ⁻³ | 340mg. m ⁻³ |
| | Acetone | : | 67-64-1 | O.E.S. | 750 ppm | 1500 ppm |
| | Propane | : | 74-98-6 | | Asphyxiating | Asphyxiating |
| | Isobutane | : | 75-28-5 | O.E.S. | 600 ppm | 600 ppm |
| | Butane | : | 106-97-8 | O.E.S. | 600 ppm | 750 ppm |
| | Ingredient comment | : | OES = Occupational Exposure Standard
Ppm = parts per million | | | |
| 8.2 | Protective Gloves | : | Use suitable protective gloves if risk of skin contact. | | | |
| 8.3 | Eye Protection | : | Wear approved, tight fitting safety glasses where risk of splashing is probable. | | | |
| 8.4 | Ventilation | : | Must not be handled in confined areas without sufficient ventilation. | | | |
| 8.5 | Repirators | : | If ventilation is insufficient, suitable respiratory protection must be provided. | | | |
| 8.6 | General protection and hygiene Measures | : | Wear appropriate clothing to prevent liquid contact and repeated or prolonged vapour contact. | | | |
| 8.7 | Hygienic Work routines | : | DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. No eating or drinking whilst working with this material. | | | |

9. Physical and Chemical Properties

- 9.1 Appearance : Aerosol
- Colour : Silver/Grey
- Odour : Organic Solvents
- 9.2 Relevant Parameters:
- Flashpoint : -40 °C
- Flammability Limit (lower %) : 1.1
- Flammability Limit (upper %) : 13
- Solubility in water : Insoluble

10. Stability and Reactivity.

- 10.1 Stability : Under normal storage and working conditions the product is stable.
- 10.2 Conditions to avoid : Avoid Heat, Flames or other sources of ignition. Avoid Strong oxidizing agents, Strong Alkalis, Strong mineral acids.
- 10.3 Hazardous Decomposition : Fire creates Vapours/gases/fumes of:
Carbon Monoxide (CO)
Carbon Dioxide (CO₂)

11. Toxicological Information

- 11.1 Health Hazards : Prolonged and repeated skin contact with solvents over a long period may lead to permanent health problems. Harmful by Inhalation. May cause irritation to the respiratory system
- 11.2 Specific Symptomatic results : Not Available
- Skin : Harmful in contact with skin. Irritating to skin.
- Eyes : Irritating to Eyes.
- Route of Entry : Inhalation. Skin Absorption.

12. Ecological Information

- 12.1 No data on possible environmental effects have been found.

13. Disposal Considerations

- 13.1 Precautions : Dispose of containers in accordance with local authority requirements and licensed disposal contractor. Empty containers must not be burned because of explosion hazard.
- 13.2 Container disposal : Drain container thoroughly. Dispose to a licensed disposal contractor. Empty containers must not be burned because of explosion hazard.

14. Transport Information

Label for Conveyance :

**ROAD TRANSPORT** :

UN No. ROAD : 1950
 ADR Class No. : Division 2.1 : Flammable Gases.
 ADR Class : 2
 ADR Item No. : 5F
 Hazard No. (ADR) : 23
 ADR Marginal : 2201
 ADR Label No. : 2.1
 Hazchem Code : N/A
 CEFIC TEC (R) No. : 20G53
 Proper Shipping Name : Aerosols

RAIL TRANSPORT :

RID Class No. : 2
 RID Item No. : 5F

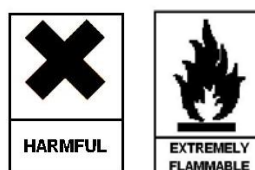
AIR TRANSPORT :

UN No. Air : 1950
 ICAO Class : 2
 Air Pack Gr. : N/A

UN No Sea : 1950
 IMDG Class : 2
 IMDG Page No. : 2102
 IMDG Pack Gr. : N/A
 EmS No. : 2-13
 MFAG Table No. : See Sub. Sec. 4.2
 Marine Pollutant : No

14. Regulatory Information

Label for Supply :



14.1 Risk Phrases : R-12; Extremely Flammable.
 R-20/21 Harmful by Inhalation and in contact with skin.
 R-36/38 Irritating to Eyes and Skin

Safety Phrases : S-2; Keep out of the reach of Children
 S-16; Keep away from sources of ignition – No Smoking
 S-23; Do not breathe Gas/Fumes/Spray/Vapour
 S-26; In case of contact with Eyes, rinse immediately with plenty of water and seek medical advice
 S-51; Use only in well ventilated areas
 S-24/25; Avoid contact with skin and eyes.
 S-36/37; Wear suitable protective clothing and gloves.
 U-2; Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use.
 U-3; Do not spray on a naked flame or any incandescent material