



SAFETY DATA SHEET

ZINGARD Spray Can

MGDUFF

foll.dir 2001/5/EC

1. Identification of the Substance/Preparation and Company

Product Name ZINGARD SprayCan
Product Type aerosol
Application substance for zinc coating
Manufacturer ZINGAMETALL bvba
Address Industriepark Veneco
Rozenstraat 4
9810 Eke – Belgium
Telephone 00 32 9 385 6881
Fax 00 32 9 385 5869
Emergency Tel 00 32 70 245 245 (Anti-poison centre)

2. Composition and Information on Ingredients

The Zingard Spraycan is based on a suspension of zinc powder (stabilised zinc dust) in a light aromatic solvent, filled under pressure with DME (=dimethylether).

3. Hazards Identification

R12 :Extremely flammable.
R51/53 :Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic organisms.

4. First Aid Measures

Inhalation Remove victim to fresh air. Allow the victim to rest. Obtain medical attention if breathing difficulty persists.
Skin Remove clothing - Wash skin thoroughly with water and mild soap for at least 15 minutes. Seek medical advice if irritation persists.
Eye Rinse Flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by pulling up the eyelids with fingers to fully open them. Seek medical advice if irritation persists.
Ingestion Rinse mouth and drink water (if person is conscious) DO NOT INDUCE VOMITING. Seek medical advice.

5. Fire Fighting Measures

Specific Risk Aerosols exposed to elevated temperatures can burst
Flammable class This product is flammable.
Prevention No naked flames. No smoking.
Extinguishing media CO₂ , Dry chemical. Do not use water in a jet
Protection against fire Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures Exercise caution when fighting any chemical fire.
Special fire-fighting procedures Fire exposed aerosols should be kept cool with water spray (if without risk and from a protected place). Shut off leaks. Keep the other aerosols cool by spraying with water. Put outside in open air, away from sources of ignition.

6. Accidental Release Measures

Other Information Inform the emergency services in cases where a large quantity of the material enters the surface water drains.
Personal precautions Equip clean up crew with proper protection. Suitable respiratory equipment.
Environmental precautions Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
After spillage and/or leakage Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.
Methods for cleaning up Shut off leak if without risk, leave any ventilation switched on and vacate the area. Put outside in open air. Eliminate source ignition. Avoid contact with skin and eyes. Do not breathe vapours. Spillages should be soaked up in a non-combustible absorbent material such as sand or earth. Shovel up and place in a sealable container for product recovery of safe disposal. Do not use compressed air for cleaning up.

7. Handling and Storage

Handling Pressurised container : protect from sunlight and do not expose to temperatures exceeding 50° C. Do not pierce or burn, even after use. Do not spray on naked flame or any incandescent material. Keep away from sources of ignition. No smoking. Keep out of reach of children. Use with adequate ventilation. Do not inhale the spray particles. Avoid contact with skin and eyes. Keep away from water.
Handling temperature Ambient.
Storage At ambient temperature, at a cool, ventilated and dry place, away from sources of ignition. Keep away from food. Keep out of reach of children. Protect from sunlight and do not expose to temperatures exceeding 50° C.

8. Exposure Controls / Personal Protection

Personal protection
- Exposure Controls Maintain adequate ventilation.
- Respiratory protection None - Do not breathe the spray particles. Maintain adequate ventilation..
- Hand protection None – Wash hands after use..
- Skin protection None – Avoid contact
- Eye protection None – Avoid contact
- Ingestion When using, do not eat, drink or smoke.
- Hygiene Measures Do not drink, eat or smoke during use. Do not contaminate food.

9. Physical and chemical properties

Physical state	Pressurised suspension (with DME)
Colour	grey
Odour	aromatic
Specific gravity	1.180 g/ml (20° C)
Boiling point	41° C (preparation)
Melting point	NA
Flash point	< 0° C (propellant)
Flammability	extremely flammable
Fire point	NA
pH	NA
Solubility in water	NA
Pressure (20° C)	ca. 4 bar
Pressure (50° C)	< 9 bar
Explosion limits upper	NA
Explosion limits lower	NA
Thermal decomposition	NA (400° C)
Water content	< 0.3%
Hazardous decomposition products	NA
Hazardous reactions	NA

10. Stability and Reactivity

Hazardous reactions	Avoid contact with : neoprene.
Stability	Stable under normal storage conditions.
Hazardous reactions	NA
Conditions to avoid	Elevated temperatures, flames, incandescent material and sources of ignition.
Materials to avoid	Water and acids.

11. Toxicological Information

Inhalation	Pain in the throat, coughing, headache, dizziness, dullness, problems with breathing.
Ingestion	Stomach ache, nausea, vomiting, feeling sleepy.
Skin Contact	Repeated contact can cause skin irritation.
Eye Contact	Spraying into the eyes causes irritation.

12. Ecological Information

Do not dispose of in drains or anywhere else in nature.

13. Disposal Considerations

Disposal	Dispose in a safe manner in accordance with local/national regulations.
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14. Transportation Information

UN number :	1950
Proper shipping name :	Aerosol (≤ 1.000 cm ³)
Label :	2.1
Class ADR/RID :	2.1
Class IMO/IMDG :	2
Class IATA/ICAO :	2.1
EmS :	2 – 13

Regulatory Information

Danger symbols EC :	F+ Extremely flammable N : dangerous to the environment
Risk Phrases EC :	R 12 : extremely flammable R51/53 : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic organisms.
Safety recommendations EC :	S2 : Keep out of reach of children. S3 : Keep in a cool place. S16 : Keep away from sources of ignition, no smoking S23 : Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). S43 : In case of fire, use powder. Never use water. S51 : Use only in well-ventilated areas. S61 : Avoid release to the environment. Refer to special instructions/safety data sheets. Can under pressure to be protected from UV rays. Do not expose to a temperature higher than 50 °C. Do not pierce nor burn even after use. Do not vaporise in direction of a flame or incandescent material.

15. Other Information

Instructions for use : See label.

The contents and format of this MSDS are in accordance with the EEC Commission Directive 2001/58/EC. ZINGARD is a registered trademark of MGDuff International Limited. This information describes the aspects of health, safety and environment for this product based on our current knowledge. This information is not construed as a technical specification or as any guarantee of the product.

The data on these sheets is merely indicative. They are the result of our knowledge and experience to the present day, and they come from sources which we consider trustworthy. The conditions or methods of handling, storage, use or elimination of the product cannot be controlled by us and are therefore outside our competence. For these and other reasons we decline all responsibility in the case of loss, damage, or costs that are caused by or that are linked in any way to the handling, storage, use or the elimination of the product. Any claim concerning deficiencies must be made, within three months upon reception of the goods, to either:

MG Duff International Ltd. 1 Timberlaine Estate, Gravel Lane, Quarry Lane, Chichester, West Sussex. PO19 8PP

Or directly to the manufacturing office at: Zingametall, Rozenstraat 4, Industriepark Veneco, B-9810Eke, Belgium.

We reserve the right to change the formula if properties of the raw materials should differ. This data sheet replaces all former specimens.