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MATERIAL SAFETY DATA SHEET

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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
3M (TM) ZINC-SPRAY P/N 09113

3M Product ID:
GC-8001-6674-3

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
DIMETHYL ETHER EU Hazard Symbols and Risk Phrases: EU - Adaptation 21 (F+; R:12)	115-10-6	40 - 60
ZINC EU Hazard Symbols and Risk Phrases: EU - Adaptation 29 (F,N; R:15-17-50/53)	7440-66-6	20 - 30
XYLENE EU Hazard Symbols and Risk Phrases: EU - Adaptation 25 (Xi,Xn; R:10-20-21-38) EINECS No: 2155357	1330-20-7	5 - 10
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER EU Hazard Symbols and Risk Phrases: EU - Adaptation 29 (Xi,N; R:36-38-43-51/53)	25068-38-6	5 - 10
N-BUTYL ACETATE EU Hazard Symbols and Risk Phrases: EU - Adaptation 25 (R:10-66-67)	123-86-4	1 - 5
LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) EU Hazard Symbols and Risk Phrases: EU - Adaptation 22 (T; R:Carc.Cat.2;45-65) EU - Additional Vendor Classification(Xi,N; R:10-37-51/53-66-67)	64742-95-6	1 - 5
MEDIUM ALIPHATIC SOLVENT NAPHTHA EU Hazard Symbols and Risk Phrases: EU - Vendor classification (N,Xn; R:51/53-65)	64742-88-7	1 - 5

3 HAZARDS IDENTIFICATION

Critical hazards:
Extremely Flammable. Irritant. Irritating to eyes and skin.
May cause sensitisation by skin contact. Harmful to aquatic

organisms. May cause long-term adverse effects in the aquatic environment.

4 FIRST-AID MEASURES

Eye Contact:

Get immediate medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes.

Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and shoes before reuse.

Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Ingestion:

Do not induce vomiting. Get immediate medical attention. Give victim two glasses of water. Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Hazardous Decomposition:

Aldehydes. Carbon Monoxide, Carbon Dioxide.

Fire-Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment and a self-contained breathing apparatus.

Special Instructions:

Aerosol container contains flammable material under pressure.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Refer to other sections of this Material Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Methods for Cleaning up:

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Seal the container. Place leaking containers in a well-ventilated area, preferably in an exhaust hood, if

available, or outdoors. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Contain spill. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

Precautions for Safe Storage:

Do not store containers on their sides.

Incompatible Materials/Conditions:

Store away from heat. Store out of direct sunlight. Store away from acids. Store away from oxidising agents.

Fire Prevention:

Aerosol container contains flammable gas under pressure. Extremely flammable liquid and vapour. Aerosol container contains flammable gas under pressure. Do not spray near flames or sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. No smoking while handling this material.

Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Static Prevention:

Avoid static discharge.

Precautions for Safe Handling:

Keep container tightly closed. Do not pierce or burn container, even after use. Avoid contact with oxidising agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Avoid eye contact with vapours, mists, or spray. The following should be worn alone or in combination, as appropriate to prevent eye contact: Full faceshield Indirect vented goggles.

Hand Protection:

The following glove material(s) are recommended: Butyl rubber. Neoprene, Polyethylene/ethylene vinyl alcohol.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid inhalation of vapours, mists or spray. Avoid inhalation of vapours, mists or spray. Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Fullface supplied-air respirator,

Ingestion:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Recommended Ventilation:

Use with functioning spray booth or local exhaust. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Exposure Limits:

DIMETHYL ETHER (115-10-6)

UK HSE TWA: 400 ppm, 766 mg/m³

UK HSE STEL: 500 ppm, 958 mg/m³

CMRG TWA Exposure Limit: 1000 ppm

XYLENE (1330-20-7)

UK HSE TWA: 50 ppm; 220 mg/m³ skin OES

UK HSE STEL: 100 ppm; 441 mg/m³ skin OES

N-BUTYL ACETATE (123-86-4)

UK HSE TWA: 150 ppm; 724 mg/m³ OES

UK HSE STEL: 200 ppm; 966 mg/m³ OES

LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) (64742-95-6)

CMRG TWA Exposure Limit: 50 ppm 245 mg/m³

MEDIUM ALIPHATIC SOLVENT NAPHTHA (64742-88-7)

UK HSE TWA: 100 ppm; 575 mg/m³ OES

UK HSE STEL: 125 ppm; 720 mg/m³ OES

CMRG TWA Exposure Limit: 100 ppm

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: Grey liquid with a solvent odour in an aerosol container.

pH: Not determined

Boiling point/boiling range: Not determined

Melting point/melting range: Not determined

Flash point: -41.11 C CC (Propellant's flash point)

Autoflammability: Not determined

Vapour pressure: Not determined

Water Solubility: Nil

Specific gravity: Not determined

Vapour density: Not determined

Volatile organic compounds: Not determined

Evaporation rate: Not determined

Viscosity: Not determined

Percent Volatile: Not determined

10 STABILITY AND REACTIVITY

Conditions to Avoid:

Heat. Sparks and/or Flames.

Materials to Avoid:

Alkali and alkaline earth metals. Strong acids. Strong bases.
Strong oxidising agents.

Hazardous Decomposition:

Stable. Hazardous polymerisation will not occur.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Effects from Skin Contact:

Moderate Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Effects from Inhalation:

May be absorbed following inhalation and cause target organ effects. Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Intentional concentration and inhalation may be harmful or fatal.

Effects from Ingestion:

May be absorbed following ingestion and cause target organ effects. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

Other Effects and Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness and tremors. Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, and fever.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

A conservative assessment indicates this product presents a low environmental risk because use and disposal are unlikely to result in the significant release of components to the environment.

13 DISPOSAL CONSIDERATIONS

Product as Sold:

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility. Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: UN1950

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: UN1950

Class: 2.0

Packing Group: Not applicable

Proper Shipping Name: Aerosols

ADR/RID CLASSIFICATION:

Class: 2.0

ADR classification: 5 f

ICAO/IATA CLASSIFICATION:

Class: 2.1

Sub-Risk: None

Packing Group: Not applicable

Proper Shipping Name: Aerosols, flammable

15 REGULATORY INFORMATION

Disclosable Ingredients:

4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER.

Symbol(s):

(F+) Flame (Extremely Flammable). (Xi) St. Andrew's Cross (Irritant). (N) Dangerous to environment.

Risk Phrases:

(R12) Extremely flammable. (R36/38) Irritating to eyes and skin. (R43) May cause sensitisation by skin contact. (R50/53) Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety Phrases:

WARNING! Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 degrees C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material. Keep away from heat. Keep away from sources of ignition including pilot lights and sparks. No smoking. Do not breathe vapour or spray. Use only in well ventilated areas. Avoid contact with the skin and eyes. Wear suitable gloves. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Contains Epoxy Resins. See information supplied by manufacturer. This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets. Keep out of the reach of children.

16 OTHER INFORMATION

Regulatory Information:

The following UK Regulations as amended may affect the product as supplied: The Chemicals (Hazard Information and Packaging for supply) Regulations, as amended. The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and use of Transportable Pressure Receptacles Regulations 1996, as amended. Carriage of Dangerous Goods by Road regulations, 1996, as amended.

The Control of Substances Hazardous to Health Regulations 1999 as amended.

The Special Waste Regulations 1996, as amended. The Environmental Protection Act, 1990 The Health and Safety at Work Act, 1974.

Reissue date/Reason for reissue.

Updated sections 10, 15.

Intended Use of Product:

An anti-corrosion coating designed to pre-treat joints and seams prior to spot welding.

The information on this Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these

reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.