



SAFETY DATA SHEET EP 410 Part A

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME EP 410 Part A

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2. HAZARDS IDENTIFICATION

Flammable. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 CLASSIFICATION (1999/45) N;R50/53. R10.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO	PERCENTAGE
ZINC DUST	7440-66-6 60	80-90
REACTIVE POLAMIDE	68082-29-1	12-15
XYLENE	1330-20-7	10-15
DI ACETON ALCOHOL	123-42-2	5-10
N BUTANOL	71-36-3	3-5
EPOXY RESIN	025068-38-6	25-35

CHEMICAL FAMILY: Mannich Base

CHEMICAL FAMILY: Amidoamine.

4. FIRST-AID MEASURES

GENERAL ADVICE

When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.

EYE CONTACT

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. Seek medical advice.

SKIN CONTACT

Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

INHALATION

Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

INGESTION

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Specific hazards during fire

As the product contains combustible organic components, fire will produce fighting dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment

In the event of fire, wear self-contained breathing apparatus.

For Fire-fighters

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray. Extinguishing media which Do NOT use water jet. must not be used for safety reasons.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Ventilate the area. Refer to protective measures listed in sections 7 and 8. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition.

Environmental precautions

Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up

Clean with detergents. Avoid solvents. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Additional advice

Refer to section 15 for specific national regulation.

7. HANDLING AND STORAGE

Usage Precaution

Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

Usage Description

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container.

Storage Precaution

Store in closed original container at temperatures between 5 C and 25 C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store separated from: Oxidizing material. Alkalis. Acids.

Storage Class

Flammable liquid storage. The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR. Up to 250 litres of liquids with a flashpoint above 32C but below 55C 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, marked storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory Equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent reasonably probable skin contact.

HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Viscous Liquid

COLOUR Grey

ODOUR of solvents

VOLATILITY DESCRIPTION Volatile.

SOLUBILITY Insoluble in water

RELATIVE DENSITY 1.75 - 2.00 @ 20 C VAPOUR DENSITY (air=1) heavier than air

VOLATILE BY WT. (%) 22-24% approx.

MIX VISCOSITY @ 30 C BY B4 CUP Sec

FLASH POINT (C) 36 approx. CC (Closed cup). FLAMMABILITY LIMIT - LOWER (%) 0.8

VOLATILE ORGANIC COMPOUND (VOC) 35 g/litre

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10. STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid contact with water. Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances. Exothermic reaction with amines and alcohols; reacts slowly with water forming CO₂, in closed containers risk of bursting owing to increase of pressure.

MATERIALS TO AVOID

Strong alkalis. Strong acids. Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. TOXICOLOGICAL INFORMATION

INHALATION

Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

INGESTION

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation.

EYE CONTACT

May cause temporary eye irritation.

HEALTH WARNINGS

This product has low toxicity. Only large volumes may have adverse impact on human health.

MEDICAL CONSIDERATIONS

Skin disorders and allergies. Avoid vomiting and normal rinse of stomach because of risk of aspiration.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses. The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

BIOACCUMULATION

The product contains potentially bioaccumulating substances.

DEGRADABILITY

The product is not expected to be biodegradable.

13. DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Do not allow to enter drains, sewers or watercourses.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS

When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing dried residues of the supplied coating, are categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

14. TRANSPORT INFORMATION

GENERAL This product is packed in accordance with the Limited Quantity Provisions of CDGCP2, ADR and IMDG.

ADR PACK GROUP III TUNNEL RESTRICTION CODE (D/E)

UN NO. SEA 1263 IMDG CLASS 3

IMDG PACK GR. III EMS F-E, S-E

UN NO. AIR 1263 AIR CLASS 3

AIR PACK GR. III

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15. REGULATORY INFORMATION

Dangerous for the environment

RISK PHRASES

R10 Flammable.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S2 Keep out of the reach of children.

S30 Never add water to this product.

S46 If swallowed, seek medical advice immediately and show this container or label.

S51 Use only in well-ventilated areas.

S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) with amendments. Health and Safety at Work Act 1974.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974. Rivers (Prevention of Pollution) Act 1961.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40) Health and Safety at Work Act (As Amended) 1974 Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 (CDG 2007) Dangerous Substances and Explosive Atmospheres Regulations 2002 [SI 2002: 2776] The Manual Handling Operations Regulations 1992 [SI 1992:2793]

16. OTHER INFORMATION

REVISION COMMENTS

Issued in new format for Reach compliance Revisions to Sections (2), (3), (8), (15), and (16) - reclassification of resin components.

Corrections to Section 14, Transport Information

ISSUED BY

ZINC RICH PRIMER

Approved.

DATE Date Printed _____

RISK PHRASES IN FULL

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R45 May cause cancer.

R46 May cause heritable genetic damage.

Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R48/23/24/25

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.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials 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, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.