

MANUFACTURER:

Chester Molecular Ltd.
05 – 092 Łomianki/WARSAW, Krzywa Str. 20 B
phone: (48 22) 751-28-06/ 08 fax: (48 22) 751-28-07
EU VAT PL118-12-33-782

1. Identification of the product

Product name: Chester Metal Super FE
Application field: Two component epoxy metal polymer

2. Composition and information about ingredients

The base:

Liquid epoxy resins
(average particle weight < 700)
(CAS: 25068-38-6) < 25% Xi; R36/38; R43, R52/53

Reagent:

Mannich base - < 25%
Triethylenetetramine (TETA) (CAS: 112-24-3) < 25% C;R34;R43

3. Determination of the threat

Warning symbol:

Xi - irritant substance Reagent:
C - caustic substance

Type of the danger:

R36/38 - Irritant for the eyes and skin
R34 - Causes burns
R43 - May cause allergy in the case of a contact with the skin.

4. First aid

Take off the dirty clothes.

In the case of a contact with the skin, clean it with a paper towel or cellucotton, and then wash with water and soap, call a doctor in the case of swallowing it.

In the case of the substance getting into the eyes, wash them with a big quantity of water and direct the victim to an ophthalmologist.

5. Procedure in the case of a fire

Fire extinguishing means: sand, water, foam, powder, or snow extinguishers,

Dangerous decomposition products: nitric oxides, carbon oxide and dioxide.

6. Procedure in the case of spilling/scattering

Personal care: as in item 8

Environmental protection:

The base - the product not soluble in water, it constitutes a minimal threat for the atmospheric air, as well as for water and soil.

The reagent - partially soluble in water; avoid its permeation into the sewage disposal system, water containers, rivers, ground waters, and soil.

Method of cleaning and collecting: the splashed adhesive shall be collected in closed containers and neutralized according to local regulations.

7. Procedure with the product and its storage

Procedure with the product:

Mixing the Base and the Reagent causes irrevocable hardening of the composition. Keep it out of eyes, skin and clothes. Ensure the ventilation during the working. Clean the hands with water and soap.

Storage:

The storage temperature should not be lower than -20°C or higher than +40°C. There is not necessity of fire and burn protection means.

8. Personal protection means

Test exposition parameters:

(CAS: 25068-38-6) – not applied

Mannich base – not applied

(CAS: 112-24-3) – not applied

Protection of the respiratory tract:

There is not necessity of protection.

Protection of hands:

Rubber protection gloves

Protection of eyes:

Protective glasses

Protection of the body:

Work clothes

9. Physic-chemical properties

form	paste
colour	the base – dark gray the reagent – light gray
smell	the base - characteristic, slightly noticeable the reagent – amine, intensive
melting temperature	not applied
freezing point	not applied
density	2,20 g/cm ³
BASE density	2,20 g/cm ³
REAGENT density	1,60 g/cm ³
ignition temperature	over 350°C
explosive limits	not applied
reactivity	not applied
corrosive properties	not applied

Mixing the Base and the Reagent causes irrevocable hardening of the composition.

10. Stability and reactivity

Stability: It does not undergo the decomposition when applied according to its purpose.

Dangerous decomposition products:

None if applied and stored according to recommendations.

11. Toxicological information

CAS: 25068-38-6

respiratory system

LC₅₀ : not applied

skin

LD₅₀ : not applied

digestive tract

LD₅₀ : not applied

Irritant for the eyes and skin; it can cause allergy in the case of a contact with the skin.

CAS: 112-24-3

respiratory system

LC₅₀ : not applied

skin

LD₅₀ : (rabbit) 805 mg/kg

digestive tract

LD₅₀ : (rat) 2500 mg/kg

It causes burns; it is harmful in the case of a contact with the skin and after consumption.

12. Ecological information

The base:

Big quantities can be toxic for fish. The product is not biodegraded in biological treatment plants, its big quantities can pollute the biomass in the treatment plant. Avoid the percolation of the product into the sewage disposal system, water containers, rivers, ground waters, and soil.

The reagent:

Ecotoxicology

LC₅₀ : (Daphnia magna, 48h) 40 mg/dm³

LC₅₀ : (fish, 96h) 330 mg/dm³

The product is not biodegraded in biological treatment plants, its big quantities can pollute the biomass in the treatment plant.

13. Information about the removal of wastes

The product:

Not hardened wastes should be utilized according to valid regulations, seeking first of all any possibility of their neutralization.

Code: 08 04 99

Package:

Code: 15 01 01

LDPE code no 4

Code 15 01 02 (for recycling)

14. Classification and marking in the transport

Transport ADR

UN 3267

Class 8

Classification Code C7

Group of packing III

The right transport name: LIQUID IRRITANT ORGANIC MATERIAL I.N.O (mixing of aliphatic amines modified)

15. INFORMATION CONCERNING LEGAL REGULATION

This Material Safety Data Sheet has been prepared in conformity with: UE Directives No. 67/548 EEC and 88/379/EEC.

Act on chemical substances and formulations of 11/01/2001 (Journal of Acts No. 11 item 84; No. 100 item 1085; No. 123 item 1350; No. 125 item 1367, as amended on 5/07/2002, Journal of Acts No. 142 item 1187).

Regulation of the Minister of Health of 3/07/2002 with respect to the data sheets of dangerous substances and dangerous formulations (Journal of Acts No. 140 item 1171).

Regulation of the Minister of Health of 3/07/2002 with respect to the list of dangerous substances, including their classification and marking – Annex (Journal of Acts No. 129 item 1110).

Regulation of the Minister of Health of 2/09/2003 with respect to marking of packaging of dangerous substances and dangerous formulations (Journal of Acts No. 173 item 1679). Regulation of the Minister of Health of 2/09/2003 with respect to criteria and classification methods of chemical substances and formulations (Journal of Acts No. 171 item 1666). Regulation of the Minister of Health of 15/07/2002 with respect to the dangerous substances and dangerous formulations, which packaging must be provided with seal difficult to open for children, and risk warning perceivable by touching (Journal of Acts No. 140 item 1174).

Regulation of the Minister of Health of 14/07/2002 with respect to the obligation of providing data sheet for some formulations not classified as dangerous (Journal of Acts No. 142 item 1194).

PN-ISO 11014-1:1998 Standard: "Chemical Safety – Safety data sheet for chemical products".

Regulation of the Minister of Work and Social Policy of 29/11/2002 with regard to the highest allowable concentrations and intensity of factors detrimental to health in the environment of work (Journal of Acts 2002, No. 217 item 1833).

Regulation of the Minister of Health of 9/07/1996 concerning tests and measurements of factors detrimental to health in the environment of work (Journal of Acts 1996, No. 86 item 394, as amended by Journal of Acts 2003, No. 21 item 180).

Regulation of the Minister of Health and Social Welfare of 11/09/1996 with respect to cancerogenous agents in the environment of work, and supervision of the condition of health of employees professionally exposed to those agents (Journal of Acts 1996, No. 121 item 571).

Regulation of the Council of Ministers of 9/11/1999 concerning the list of products made in Poland, and also products imported to Poland for the first time, which can create danger, or serving the purpose of protection or saving life, health or environment, subjected to compulsory certification for the safety mark, and marking with this mark; and products subjected to compulsory issuance of the declaration of conformity by the maker (Journal of Acts 2000, No. 5 item 53).

Regulation of MOŚZNL of 28/04/1998 with respect to the values of allowable concentration of polluting agents in the air (Journal of Acts 1998, No. 55 item 355).

Regulation of the Minister of Economy of 21/10/1998 (Journal of Acts No. 145 item 942), and the amendment of 5/03/2001 with respect to detailed rules of disposing, utilisation and neutralisation of dangerous wastes (Journal of Acts 2001, No. 22 item 251).

Act of 27/04/2001 on wastes (Journal of Acts No. 62 item 628), and regulation of the Minister of Environment of 27/09/2001 with respect to the catalogue of wastes (Journal of Acts No. 112 item 1206).

Classification of dangerous materials according to the European Agreement concerning International Transportation of Dangerous Materials ADR (effective as from 1/07/2001).

Regulation of the Minister of Infrastructure of 20/07/2002 with respect to the methods of fulfilling the duties of industrial wastewater suppliers, and conditions of draining wastewater to sewage utilities (Journal of Acts 2002, No. 129 item 1108).

This Material Safety Data Sheet of a dangerous material is provided directly to the user of the formulation without assurance or guarantee with respect to the completeness or particularity concerning all information or recommendations contained therein.

This Material Safety Data Sheet does not constitute any grounds obliging the formulation supplier to any responsibility of any kind. The supplier shall not be responsible for any decease, disease, or damage of health of any kind, being the consequence of application or misapplication of the safety data sheet of dangerous material covered by this data sheet.

Information contained in this Material Safety Data Sheet present the up-to-date state of our knowledge and experience concerning safe use of the product.

Marking of unit packages

Classification of the formulation

The label should contain the following marks and symbols:

Base:

Xi – irritating substance



Xi

Determination of the type of the danger:

R36/38 - Irritant for the eyes and skin.

R43 - May cause allergy in the case of a contact with the skin

Determination of a correct handling of the product:

S1/2 - Keep it outside the reach of children.

S28 - Immediately wash the dirty skin with a big quantity of water.

S36/37/39 - Wear appropriate gloves and eye/face protection.

S45 - In the case of a failure or if you feel unwell, consult a doctor (show the label if it is possible).

The reagent:

C - caustic substance



C

Determination of the type of the danger:

R34 - Causes burns

R43 - May cause allergy in the case of a contact with the skin

Determination of a correct handling of the product:

S1/2 - Keep it outside the reach of children

S26 - In the case of a contact with the eyes, wash the eyes immediately with big quantities of water and ask for a medical help.

S36/37/39 - wear appropriate protective clothes, gloves, and eyes/face protection

S45 - In the case of a failure or if you feel unwell, consult a doctor (show the label if it is possible).

16. Additional information

It is the newest version of the Material Safety Data Sheet for the material. The information contained in the card are technical data. It cannot be interpreted as a guarantee of its properties. The user's duty includes the checking of the usefulness of the product for certain applications and an assurance of a safe work position, as well as the observance of all valid legal regulations.

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3. Determination of the threat

Warning symbol:

Xi - irritant substance Reagent:
C - caustic substance

Type of the danger:

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4. First aid

Take off the dirty clothes.

In the case of a contact with the skin, clean it with a paper towel or cellucotton, and then wash with water and soap, call a doctor in the case of swallowing it.

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Personal care: as in item 8

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Test exposition parameters:

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Mannich base – not applied

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Protection of the respiratory tract:

There is not necessity of protection.

Protection of hands:

Rubber protection gloves

Protection of eyes:

Protective glasses

Protection of the body:

Work clothes

9. Physic-chemical properties

form	paste
colour	the base – silver, aluminum the reagent - gray
smell	the base - characteristic, slightly noticeable the reagent – amine, intensive
melting temperature	not applied
freezing point	not applied
density	2,00 g/cm ³
BASE density	2,20 g/cm ³
REAGENT density	1,60 g/cm ³
ignition temperature	over 350°C
explosive limits	not applied
reactivity	not applied
corrosive properties	not applied

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10. Stability and reactivity

Stability: It does not undergo the decomposition when applied according to its purpose.

Dangerous decomposition products:

None if applied and stored according to recommendations.

11. Toxicological information

CAS: 25068-38-6

respiratory system

LC₅₀ : not applied

skin

LD₅₀ : not applied

digestive tract

LD₅₀ : not applied

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Marking of unit packages

Classification of the formulation

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Base:

Xi – irritating substance



Xi

Determination of the type of the danger:

R36/38 - Irritant for the eyes and skin.

R43 - May cause allergy in the case of a contact with the skin

Determination of a correct handling of the product:

S1/2 - Keep it outside the reach of children.

S28 - Immediately wash the dirty skin with a big quantity of water.

S36/37/39 - Wear appropriate gloves and eye/face protection.

S45 - In the case of a failure or if you feel unwell, consult a doctor (show the label if it is possible).

The reagent:

C - caustic substance



C

Determination of the type of the danger:

R34 - Causes burns

R43 - May cause allergy in the case of a contact with the skin

Determination of a correct handling of the product:

S1/2 - Keep it outside the reach of children

S26 - In the case of a contact with the eyes, wash the eyes immediately with big quantities of water and ask for a medical help.

S36/37/39 - wear appropriate protective clothes, gloves, and eyes/face protection

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