



Stucco Italiano srl
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C.F. 03744780242 P.Iva 03744780242

MATERIAL SAFETY DATA SHEET

LIQUID METAL A

1. IDENTIFICATION OF PRODUCT AND COMPANY

PRODUCT	
<i>Trading name</i>	LIQUID METAL A

Type of product and use:	epoxy resin and fine metallic powder in gel solution
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COMPANY IDENTIFICATION	
Company's data:	STUCCO ITALIANO SRL Via Rovereto 20- 36030 Costabissara – Italia Tel. +39 347 2469500 E-Mail: info@stuccoitaliano.it web: www.stuccoitaliano.it

2. COMPOSITION / INFORMATION ON INGREDIENTS

Contains:			
Name.	CAS N.	Concentration % (C).	Classification.
Bisphenol A -epicloridine- epoxy resin	25068-38-6 500-033-5	70-80%	Xi; R36/38 R43 N;R51 R53
Acid Fat, C16-18, polymer with glicerolo and ethylene glycol	96633-71-5	15-20%	R43
Glycidyl Neodecanoate	26761-45-5 247-979-2	5-10%	R43 N;R51/53
Metal powder	7439-89-6 ; 7440-50-8 7440-66-6		

3. IDENTIFICATION OF HAZARDS

3.1 Classification of the substance or mixture

Classification according to Directive CE No.1272/2008 [CLP/GHS]

Skin Corr./Irrit. 2 H315 Eye Dam./Irrit. 2 H319 Skin Sens. 1 H317 Muta. 2 H341
Aquatic Chronic 2 H411

Classification according to Directive 1999/45/CE [DPD]

It contains hazardous ingredients as per Directive 1999/45//CEE

Xi R36/38	Harmful if in contact with eyes
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R43	May cause sensitization by skin contact.
N, R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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2 Label elements

Hazard symbol or symbols	
Warning:	Warning
Hazard statements:	R20/21/22-Harmful by inhalation, in contact with skin and if swallowed. R34-Causes burns. R43-May cause sensitization by skin contact. R51/53-Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 suspected to cause genetic mutation
Hazardous ingredients	Bisfenolo-A-epicloridrine Cas n. 25068-38-6

Danger Identification

IRRITATING TO EYES AND SKIN. MAY CAUSE SENSITIZATION BY SKIN CONTACT. TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. This product contains epoxy resins. Producer's specifications are as follows: Because of epoxy-product properties and according to the toxicological data available for similar products, this preparation may sensitize and irritate the skin and the respiratory system. It contains epoxy components at low molecular weights, which may irritate eyes, mucosas and skin. Frequent contact with skin may cause irritation and sensitization phenomena. Sensitization reactions may also be caused by other epoxy components (cross-sensitization). Avoid contact with skin and exposure to vapours and aerosols.

4. FIRST-AID MEASURES

Inhalation: take the injured to open air. In case the illness persists consult a doctor. Contact with eyes: rinse immediately with plenty of water for 15 minutes at least. In case the irritation persists, consult a doctor. Contact with skin: wash with soap and plenty of water. Clean with detergent. Avoid the use of solvents. Ingestion: Drink immediately plenty of water. In case of vomit turn the person on one side. Use oxygen and artificial respiration if necessary. Do not induce vomit.

5. FIRE-FIGHTING MEASURES

Suitable fire-extinguishing equipment: spray water, carbon dioxide, foam, dry powder. Fire-extinguishing equipment not to be used for safety reasons: abundant spout of water. Protection equipment: self-breathing apparatus and safety overalls. Other information: combustion creates unpleasant and toxic smokes. Carbon monoxides.

6. MEASURES IN CASE OF ACCIDENTAL SPILLAGE

Personal protection	Keep away from flames and sparks. Do not smoke. Avoid skin, eye and clothes contact. Do not breathe vapours and powders.
Environmental protection	Do not discharge the product into the sewer system, do not contaminate surface water, avoid subsoil penetration.
Cleaning methods	Saturate with inert absorbing material and dispose of as waste

7. HANDLING AND STORAGE

Handling precautions	Assure enough air change and/or adequate ventilation in the work environment. Avoid aerosol creation. Provide for adequate ventilation. Open and handle the container with care.
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Storage condition Keep away from food, drinks and animal food.
Keep the container hermetically sealed.
Store at room temperature in its original container.

8. INDIVIDUAL CONTROL

Exposure limits:

Not available.

Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

Protection of hands

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitril or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

Protection of eyes

Wear protective airtight goggles (ref. standard EN 166).

Protection of skin

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

Breathing protection

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an B or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141). The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited. If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138). An emergency eye washing and shower system must be provided.

9. CHEMICAL/PHISICAL CHARACTERISTICS OF THE PRODUCT

Physical state	LIQUID
Colour	PALE YELLOW TRANSPARENT
Odour	LIGHT
Water solubility	SLIGHT
Viscosity	400 - 600 mPas
Vapour density	ND
Evaporation speed	ND
Comburent properties	NA
Partition coefficient: n-octanol/water	ND
pH value	NA
Boiling point	> 200 °C.
Flash point	> 100 °C.
Explosive properties.	Not available.
Ignition temperature.	> 250 °C
Vapour pressure.	< 1 mbar
Specific gravity.	1,157 Kg/l
Voc	Limit value: 140,00 (2007) - 140,00 (2010) VOC of product : 0,00

10. STABILITY AND REACTIVITY



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Reactivity	Stable in normal condition
Condition to be avoided	Do not flow into phreatic waters, into rivers or into the environment in general
Substances to be avoided	None
Dangerous decomposition product	None in normal condition. Combustion causes unpleasant and toxic smokes.

11. TOXICOLOGICAL INFORMATION

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness. Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

It provokes eyes and skin irritation. It may cause skin sensitisation.

exanediolglycidylether: acute oral toxicity LD50 rat 8500mg/kg
acute dermal toxicity LD50 rabbit <4900mg/kg.
epoxy resin: acute oral toxicity LD50 rat >5000mg/kg.

12. ECOLOGICAL INFORMATION

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it may even have negative effects on aquatic environment.

Biodegradable with difficulty. Do not flow into phreatic waters, into rivers or into the sewer system.

Exanediolglycidylether: fish toxicity LC50 96 hours 17,1-30,9 mg/l zebraerling LC50 96 hours 30mg/l iridea trout
daphnia toxicity EC50 24 hours 47mg/l daphnia magna.

13. INFORMATION ON DISPOSAL

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations

14. INFORMATION ON TRASPORT

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

14.1 Road and rail Transport

ADR 3082	Liquid substance dangerous for the environment, N.A.S. Liquid epoxy resin Neodecanoato DI 2,3 Epossipropile	9	III
RID 3082	Liquid substance dangerous for the environment, N.A.S. Liquid epoxy resin Neodecanoato DI 2,3 Epossipropile	9	III
ADN/ADNR 3082	Liquid substance dangerous for the environment, N.A.S. Liquid epoxy resin Neodecanoato DI 2,3 Epossipropile	9	III
ICAO/IATA 3082	Liquid substance dangerous for the environment, N.A.S. Liquid epoxy resin Neodecanoato DI 2,3 Epossipropile	9	III



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IMO/IMDG 3082	Liquid substance dangerous for the environment, N.A.S. Liquid epoxy resin Neodecanoato DI 2,3 Epossipropile	9	III
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15. INFORMATION ON REGULATIONS

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH Status The substance(s) in this product has (have) been Pre-Registered and/or Registered, or are exempted from registration, according to Regulation (EC) No. 1907/2006 (REACH).

Aerosol dispensers Not applicable.

Annex XVII - Restrictions on the : manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

EU - Prior Informed Consent. : List of chemicals subject to the international PIC procedure (Annex I - Part 1) Not listed

EU - Prior Informed Consent. : List of chemicals subject to the international PIC procedure (Annex I - Part 2) Not listed

EU - Prior Informed Consent. : List of chemicals subject to the international PIC procedure (Annex I - Part 3) Not listed

AOX Not available

Seveso II Directive : This product is controlled under the Seveso II Directive.

Danger criteria :

E2: Hazardous to the aquatic environment - Chronic 2

C9ii: Toxic for the environment

International regulations Australia inventory (AICS) All components are listed or exempted. Taiwan inventory (CSNN) All components are listed or exempted. Canada inventory All components are listed or exempted. Japan inventory Not determined. China inventory (IECSC) All components are listed or exempted.



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Korea inventory All components are listed or exempted.
New Zealand Inventory (NZIoC) All components are listed or exempted.
Philippines inventory (PICCS) Not determined.
United States inventory (TSCA 8b) Not determined.

**Chemical Weapons Convention List
Schedule I Chemicals** Not listed

**Chemical Weapons Convention List
Schedule II Chemicals** Not listed

**Chemical Weapons Convention List
Schedule III Chemicals** Not listed

16. OTHER INFORMATION

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC)
No. 1272/2008]
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative

Note for users: The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product . This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Vicenza 03-01-2017