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MATERIAL SAFETY DATA SHEET

LIQUID METAL B

1. IDENTIFICATION OF PRODUCT AND COMPANY

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

Type of product and use:	Curing agent for epoxy system .
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COMPANY IDENTIFICATION	
Company's data:	STUCCO ITALIANO SRL ivia Rovereto 20 - 36030 Costabissara (VI) – Italia Tel. +39 347 2469500 Fax. +39 0445 941047 E-Mail: info@stuccoitaliano.it web: www.stuccoitaliano.it

2. IDENTIFICATION OF HAZARD

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (EC) No 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statements
Skin irritation	2	H318: Causes serious eye damage
Serious eye damage/eye irritation	1	H315: Causes skin irritation
Skin sensitisation	1B	H317: May cause an allergic skin reaction
Specific target organ toxicity single exposure respiratory tract irritation	3	H335: May cause respiratory irritation

2.2 LABEL ELEMENTS

According to Regulation (EC) No 1272/2008 (CLP) *Hazard pictograms*



Signal word

Danger

Hazard statements

H318 Causes serious eye damage



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H315 Causes skin irritation
H317 May cause an allergic skin reaction H335 May cause respiratory irritation

Precautionary statements

P102 Keep out of reach of children.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Immediately call a POISON CENTER or doctor/physician.

P302+P352+P333+P313 P261+P304+P340+P312

Supplemental information

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Avoid breathing dust. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Dispose of product/packaging by hardening with the application of water and dispose of as concrete waste.

Skin contact with wet cement, fresh concrete or mortar may cause irritation, dermatitis or burns. May cause damage to products made of aluminium or other non-noble metals.

2.3 OTHER HAZARD

Cement does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

When cement reacts with water, for instance when making concrete or mortar, or when the cement becomes damp, a strong alkaline solution is produced. Due to the high alkalinity, wet cement may provoke skin and eye irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Contains:

Epoxy-amine adduct. Aqueous solution.

Identification number:

EINECS number: not applicable to the hardner

CAS number of the metal: 7439-89-6 ; 7440-50-8;

7440-66-6

Dangerous component: Void

4. FIRST-AID MEASURES

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.
SKIN: Immediately wash with plenty of water. Remove all contaminated clothing. Obtain immediate medical attention. Wash contaminated clothing separately before using them again.
INHALATION: Remove to open air. If breathing is irregular or stopped, administer artificial respiration. Obtain immediate medical attention.
INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Give nothing by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

GENERAL INFORMATION

-Suitable extinguishing agents:

CO2 extinguishing powder or water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

⊗ For safety reasons unsuitable extinguishing agents:
water with full water jet

⊗ - Special hazards caused by the material, its products of combustion or resulting gases:



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Can be released in case of fire:
 Nitrogen oxides (NOx)
 Carbon monoxide (CO)
 Ammonia
 ☒ Protective equipment::
 Wear full protective suit. Wear self-contained breathing apparatus

6. MEASURES IN CASE OF ACCIDENTAL SPILLAGE

Personal protection	Wear protective equipment. Keep unprotected persons away.
Environmental protection	The product must not penetrate the sewers, surface water, ground water and neighbouring areas.
Cleaning methods	Use inert absorbent material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

7. HANDLING AND STORAGE

Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, bright flames and sparks and other sources of ignition.

8. INDIVIDUAL CONTROL

Additional information about design of technical systems: Not further data, see item 7

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 eyes

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

Protection of hands: plastic gloves (EN 374)

Protection of skin

protective work clothing (EN 340)

Breathing protection

Not necessary if room is well ventilated.
 Use breathing protection in case of insufficient ventilation

9. CHEMICAL/PHISICAL CHARACTERISTICS OF THE PRODUCT

Physical state	LIQUID
Colour	WHITE
Odour	ODOURLESS
Water solubility	EMULSIONABLE
Viscosity	3500 - 6000 mPas
Vapour density	ND
Evaporation speed	ND



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Comburent properties	NA
Partition coefficient: n-octanol/water	ND
pH value	10
Boiling point	> 100 °C.
Flash point	> 200 °C.
Explosive properties.	Not available.
Ignition temperature.	> 250 °C
Vapour pressure.	< 1 mbar
Specific gravity.	1,170 Kg/l
Solid content:	50,00%
VOC (Directive 1999/13/EC)	0
VOC (volatile carbon) :	0

10. STABILITY AND REACTIVITY

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbon oxides may be released and vapours which are dangerous to health. The vapours has corrosive gases and Nitrous vitriol

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE: avoid contact with strong acids and oxidizing agents. In the event of a fire, there might be toxic nitrous fumes.

11. TOXICOLOGICAL INFORMATION

Primary Irritant effect
on the skin: irritation of the skin is possible
on the eyes: strong irritant with the danger of severe eye injury.

12. ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Avoid the product to reach waterways or sewers or contaminate soil or vegetation.

13. INFORMATION ON DISPOSAL

Reuse, when possible. 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.

14. INFORMATION ON TRASPORT

Land transport ADR/RID Class: -
Maritime transport IMDG Class: -
Air Transport ICAO/IATA Class: -
Transport additional information: No dangerous according to international transport regulations.

15. INFORMATION ON REGULATIONS

Designation according to EU guidelines: The product has been classified and labelled in accordance with EC directives / ordinance on hazardous materials (GefStoffV)



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Xi	Irritant
41	Risk of serious damage to eyes
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39	Wear suitable gloves and eyes protection

16. OTHER INFORMATION

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 2 May 2013