

MATERIAL SAFETY DATA SHEETS
TileMaster – Cream Filler

Section 1 – Product Identification	
Product name	TileMaster Cream Filler
Product type	Mastic and hardener
Product description	Mastic for marble and stone made from polyester resin
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Section 2 – Hazards Identification

2.1

Classification of the substance according to Regulation EC n. 1272/2008

The product is not classified as dangerous –

Flam.liq.3: H226 Flammable liquid and vapors
Toxic: H361d Suspected of damaging the unborn child
Stot-RE: H372 Causes damage to organs through prolonged or repeated exposure
Skin irrit. 2: H315 Causes skin irritation
Eye Irrit. 2: H319 Causes serious eye irritation

2.2

Label indications:



2.3


Hazards:

H226: Flammable liquid and vapor
Toxic: H361d Suspected of damaging the unborn child
Stot-RE: H372 Causes damage to organs through prolonged or repeated exposure
Skin irrit. 2: H315 Causes skin irritation
Eye Irrit. 2: H319 Causes serious eye irritation
P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P281: Use personal protective equipment as required
P280 Wear protective gloves
P301+310: IF SWALLOWED: immediately call a poison center / Doctor
P302+352 IF ON SKIN: Wash with plenty of water

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3 – Composition / Information on the ingredients

Substances classified as hazardous to health according to Regulation 1272/08 as amended, or for which there are recognized exposure limits. Chemical characterization: mixture.

<i>SUBSTANCE</i>	<i>Codes of class and hazard category</i>	<i>Pictogram / Warning</i>	<i>Codes of hazard</i>	<i>Quantity</i>
CAS: 100-42-5 EINECS: 2002-851-5 n. Index: 601-026-00-0 n. REACH registration: 01-2119457861-32-XXXX	Flam. Liq. 3 Asp. Tox. 1 Acute tox. 4 STOT RE 1 STOT SE 3 Eye irrit 2 Skin irrit 2		H226 – H361d – H332 – H372 (auditory organ) – H315 – H319	10-20%

Section 4 – First Aid Measures

4.1

First aid measured description:

In case of contact with the skin: Remove dirty shoes and clothes then safely dispose them. Wash the area with soap and water. Immediately call a doctor in case of irritation, swelling or redness persist. In case of contact with the eyes: Rinse well with water for around 15 minutes. Call the specialist doctor or local hospital if irritation persists.

4.2

Main symptoms and effects both acute and delayed, see chapter 11:

Skin contact: Redness, irritations

Eyes contact: Eyes irritation

4.3

Indication on the eventual necessity of contacting a doctor and special treatments - Follow doctor's instructions.

Section 5 – Anti-Fire Measures

5.1

Extinguisher means:

Carbon dioxide, foam, powder and nebulized water.

DO NOT USE WATER JETS.



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May be used to cool closed containers exposed to flames and to prevent from explosions.

5.2

Dangers coming from substance or mixture:

DANGERS LINKED TO EXPOSURE IN CASE OF FIRE

There might be over-pressure in the containers exposed to fire with consequent danger of explosion.

Avoid breathing burning substances (Carbone oxide, toxic products in pyrolysis)

Oxides of carbon, in the event of incomplete combustion of aromatic hydrocarbons. Containers exposed to fire can explode.

5.3

Information for the staff extinguishing the fire.

GENERAL INFORMATION SAFETY DATA SHEET

Cool containers with water jets in order to avoid product decomposition and the formation of possible substances that would be health dangerous. Always wear the whole anti-fire equipment. Collect extinguishing water that won't be pour down drains. Collect dirty water and all the residues according to current rules.

EQUIPMENT

Protective cap with peak, fireproof clothes (jacket and trousers with bands around arms, legs and hips), suitable gloves (anti-fire, anti-cut), auto-breather (auto protector).

Section 6 – Accidental Release Measures

6.1

Personal precautions, protective equipments and procedures in case of emergency.

Remove any ignition or heating source (cigarettes, flames, sparks, etc) in the concerned area. In case of solid product avoid the formation of powder, spraying some water unless there are specific notifications.

In case of powders dispersed in the air or vapours, use suitable breathing protection.

Stop the discharge if there's no danger. Do not handle damaged containers or the discharged product without wearing suitable protective clothes.

For any information regarding risks for environment and health, breathing protection, ventilation and individual protective means, please refer to other chapt. in this data sheet.

6.2

Environmental precautions

Do not let the product pour down drains, superficial waters, water-bearing stratum and border areas.

6.3

Methods and materials to collect and clean.

Absorb the discharged product using absorbing inert material. (sand, powder) Collect most of the residual product using collecting containers. Remove the residual using water jets if there are not opposite notifications. Good air the ambient concerned by the discharge. Product disposal must be performed according to chapt. 13.

Section 7 – Handling and Storage



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7.1

Precautions for safe handle:

Wear gloves, apron, mask and boots.

7.2

Safe warehouse:

Keep container well sealed in a dry place; protect from freeze and avoid temperatures higher than 40°C. Do not keep in warehouse together with acids and strong basis.

7.3

Specific end uses:

Mastic for marble and stone

Section 8 – Exposure Control and Protection

8.1

Since the use of suitable technical measures should be first than personal protection equipment, it's necessary to ensure a proper ventilation through the use of a good aspiration device or the polluted air discharge. If these operations do not keep product concentration under minimum exposure values, it will be necessary to wear a suitable breathing apparatus protection. During use, refer to danger label for more details. Personal protective clothes must be in compliance with the rules here below indicated:

Hands Protection

Protect hands using working gloves, II category. (ref. Directive 89/686/CEE and Rule EN 374) like: PVC, neoprene, nitrile or equivalent.

The final choice of the gloves must consider: degradation, breaking time and permeability. In case of mixtures the gloves resistance must be checked before using, it is not foreseeable. Gloves have a wear and tear term that depends on exposure time.

Precautionary measures: avoid inhaling the vapors, avoid contact with eyes and skin.

Eyes Protection Wear sealing protective mask (ref. Rule EN 166)

Skin Protection Wear long sleeves working clothes and shoes for professional use, II category. (ref. Directive CEE and EN 344 rule). Wash with plenty of water after taking protective clothes off. neoprene or nitrile rubber gloves, minimum / gloves:> 2h, minimum thickness gloves: 0.6 mm conform to EN374. Check the resistance of gloves to the product before use.

Breathing Protection

In case of overcoming of the limit value of one or more substances present in the product, wear a mask with filter A type or the universal type, whose class (1,2 or 3) will be chosen according to the use. (ref. EN 141 Rule). The use of breathing apparatus protections, like mask with filter for organic vapors and powders/fog, it's compulsory in absence of technical measures to limit the worker exposure. The protection given by the mask is limited anyway. If the substance is odorless or in case of emergency (unknown time of exposure or the oxygen level in the ambient is lower than 17%) wear a compressed air auto-breather at open circuit (ref. Rule EN 137) or a respirator with external air outlet for the use with whole mask, semi-mask or nozzle. (Ref. Rule EN 138). If there's the risk to get squirts or sprinkles due to the type of work performed, it's necessary to foresee a suitable mucous protection (mouth, nose, eyes) in order to avoid accidental absorptions.

8.2

Limits of exposure:



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Limiti ACGIH		
Dangerous Substances	TLV-TWA (mg/m ³)	TLV-STEL* (mg/m ³)
Styrene	85	170 (A4)***

Styrene, n0 CAS 100-42-5

Specification: DNEL (EC)
Parameter: Long-term systemic effects dermal population
Value: 343 mg/kg

Specification: DNEL (EC)
Parameter: Long-term systemic effects oral population
Value: 2,1 mg/kg

Specification: DNEL (EC)
Parameter: Long-term systemic effects inhalation workers
Value: 85 mg/m³

Specification: DNEL (EC)
Parameter: Short-term systemic effects dermal population
Value: 289 mg/m³

Specification: DNEL (EC)
Parameter: Short-term local effects dermal population
Value: 306 mg/m³

Specification: DNEL (EC)
Parameter: Long-term systemic effects dermal workers
Value: 406 mg/kg

Specification: DNEL (EC)
Parameter: Long-term systemic effects inhalation population
Value: 10,6 mg/m³

Specification: DNEL (EC)
Parameter: Short-term systemic effects inhalation workers
Value: 174,25 mg/m³

Specification: DNEL (EC)
Parameter: Long-term systemic effects inhalation population
Value: 182,75 mg/m³

Specification: PNEC (EC)
Parameter: Fresh water
Value: 0,028 mg/l

Specification: PNEC (EC)



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Parameter:	Sea water
Value:	0,028 mg/l
Specification:	PNEC (EC)
Parameter:	issuing occasional
Value:	0,04 mg/l
Specification:	PNEC (EC)
Parameter:	Purification plant
Value:	5 mg/l
Specification:	PNEC (EC)
Parameter:	Sediment (fresh water)
Value:	0,614 mg/kg
Specification:	PNEC (EC)
Parameter:	Sediment (sea water)
Value:	0,614 mg/kg
Specification:	PNEC (EC)
Parameter:	Ground
Value:	0,2 mg/kg

8.3

Exposure control, Technical controls:
Handle in well ventilated areas

8.4

Individual protection:
Wear gloves and mask, in normal use conditions no vapors is generated

8.5

Environmental protection:
Avoid discharge in sewers

Since the use of suitable technical measures should be first than personal protection equipment, it's necessary to ensure a proper ventilation through the use of a good aspiration device or the polluted air discharge.

If these operations do not keep product concentration under minimum exposure values, it will be necessary to wear a suitable breathing apparatus protection. During use, refer to danger label for more details.

Section 9 – Chemical and Physical Properties

9.1

Status:	Solid cram paste
Color:	Yellow / dark brown / beige / white
Odor:	Characteristic of styrene
Smelling threshold:	NA
pH:	NA



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Boiling point: 293°C approx.
Fusion point: 32°C
Flashing point: Not applicable
Ignition temperature: Not determined
Upper / lower flammability or explosive limits: nd / 1.1% (v / v)
Relative density: 1.65 g / cm³ (25°C)
Vapors: 2.5
Viscosity: NA
Solubility: NA

Section 10 – Stability and Reactivity

10.1

Reactivity:

No dangerous reaction in normal conditions of use

10.2

Chemical stability:

The product is chemically stable in normal use and storage conditions. It is exothermically active.

10.3

Possible dangerous reactions:

No dangerous reactions detected

10.4

Conditions to avoid:

Avoid overheating above 65°C, avoid contact with wood and light metals.

10.5

Hazardous decomposition products:

In case of thermal decomposition gasses and vapours dangerous to health may occur.

10.6

Incompatible materials

strong oxidizing agents, peroxides, strong acids, strong alkalis, copper, copper alloys, rubber, brass.

10.7

Hazardous decomposition products

oxides of carbon, in the event of incomplete combustion of aromatic hydrocarbons.

Section 11 – Toxicological Information

Acute inhalation toxicity:

No relevant data

Acute oral toxicity:

styrene: LC50 inhalation, rat: 11.8 mg / l. LD50 oral rat: 5000 mg / kg. LD50 dermal, rat:> 2000 mg / kg (OECD402).

Contact with the skin:

May cause irritation

Contact with the eyes:

May cause eyes irritation

Section 12 – Ecological Information

12.1

Eco-toxicity:

Styrene: LC50, fish, fathead minnows = 4.02 mg / l (96h). EC50, alga, Pseudokirchneriella sub capitata = 4,9mg / l (72h). EC50, Daphnia, Daphnia magna = 4.7 mg / l (48h). Readily biodegradable. Unpredictable potential bioaccumulation. Mobility potential very high. Danger to drinking water in the event of a leak into the ground even extremely small quantities.

12.2

Persistence and biodegradability:

Degradazione abiotica fotolisi, chlorides of degradation products

12.3

Bioaccumulability:

No data available

12.4

Mobility in the ground:

Very relevant solubility and mobility

12.5

Results of PBT and vPvB evaluations:

Highly toxic for water organism

Section 13 – Disposal Considerations

13.1

Waste Handling:

Re-use, if possible the product. Product residues must be regarded as special dangerous waste. Waste danger that contain this product must be evaluated on the basis of current rules.

Disposal:

Must be performed by company authorized to waste handling, according to national and local current rules. Polluted Packages, Polluted packages must be recovered or wasted in compliance with National rules concerning waste management.

Section 14 - Transport

Transport must be performed by specific vehicles authorized to transport of dangerous goods, in compliance with current rules of the current ADR agreement and applicable disposition.

Transport must be performed in original containers and, anyway, use packages made of materials not attaching by the product inside.

Loading staff must be properly trained on possible risks and eventual procedures to follow in case of emergency.

BY ROAD AND RAIL:

ADR/RID-GGVS E Class 3 (f) 1 Liquid flammable substance UN 3269

Packing group III

Nr. Kemler 30

Name Polyester resin kit



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BY SEA:

IMDG Class 3 UN 3269
Packing group III
EMS No. F-E; S-D
Not pollutant
Name Polyester resin kit

BY AIR

ICAO / IATA class 3 UN:3269
Packing group III
Name Polyester resin kit

Section 15 – Regulatory Information

15.1

Standards and legislation on health, safety and environment specific to the substance or mixture
Legislative Decree no. 81/08 Consolidated safety and health at work and logos seq .; Legislative Decree no. 152/06 consolidated environmental and seq .; EC Regulation 1907/06 - EC Regulation 1272/08; Leg. 14/03/03 n. 65 labeling and packaging dangerous preparations.

Where applicable refer to the following regulatory provisions: 46 and 61 (Aromatic amines); Leg. September 21, 2005 n. 238 (Seveso Ter); EC Regulation no. 648/2004 (detergents).

Volatile Organic Compounds (VOC) VOC content (% by weight): 14 %.

Seveso: styrene category 6.

Chemical safety assessment: we not have been carried out a chemical safety assessment.

Section 16 – Other Information

16.1

Classification according to Regulation CE 1272/2008

Hazard indications:

Flam. Liq.2 Flammable liquid, cat. 2

Acute tox.3 High toxicity, cat. 3

STOT SE 1 Specific toxicity for target - single exposure, Cat. 1

Flam.Liq.3 Flammable liquid, cat.3

STOT SE 3 Specific toxicity for target-single exposure, Cat.3

Carc. 1B Cancerogenicity, CAT 1 B

Muta , 1B Mutagenicity on stem cells, cat. 1 B

Asp. Tox.1 Danger in case of aspiration, cat. 1

Acute tox.4 High toxicity, cat. 4

STOT RE 1 Specific toxicity for target - repeated exposure, cat. 1

Eye Irrit. 2 Eyes irritation, cat.2

Aquatic Acute 1 Dangerous for fish fauna, high toxicity, cat.1

Aquatic Chronic 1 Dangerous for fish fauna, high toxicity, cat.1

H226 Liquid and flammable vapours

H305 may be harmful if swallowed and by penetrating breathing ways

H314 causes severe skin burning

H315 causes skin irritation

H319 Causes eye irritation

H400 Very toxic for water organism

EUH066 Continuous exposure may cause skin dryness and cracks.

P260 do not breath vapors in aerosol

P301+330+331 in case of ingestion rinse the mouth and do not induce vomit



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P303+361+353 in case of contact with the skin (or hair) immediately take dirty clothes off. Rinse the skin, take a shower.

P305+351+338 in case of contact with eyes rinse very well for some minutes, take off eventual lens and rinse again.

R10 flammable

R11 easily flammable

R 23/24/25 toxic by inhalation, skin contact, ingestion

R36 eyes irritating

R48/25 toxic: serious healthy damages in

Case of long exposure by ingestion.

R50/53 high toxic for aquatic organism,

At long term it may cause negative effects for fish fauna

R65 harmful: if swallowed could cause serious damage to lungs.

R66 continuous exposure may cause skin dryness and cracks.

R67 vapours inhalation may cause sleepiness and giddiness.

R68 possibility of non-reversible effects.

General Bibliography

1. Directive 1999/45/CE and following modifications
2. Directive 67/548/CEE and following modifications
3. Regulation (CE) 1907/2006 of European Parliament (REACH)
4. Regulation (CE) 790/2009 of European Parliament (I Atp. CLP)
5. Regulation (CE) 453/2010 of European Parliament
6. The Merck Index Ed. 10
7. Handling Chemical Safety
8. Niosh- Registry of Toxic Effects of Chemicals Substances
9. INRS – Fiche Toxicologique
10. Patty- Industrial Hygiene and Toxicology
11. N.I. Sax. – Dangerous properties of Industrial Materials – 7 Ed. 1989

USER'S NOTES:

The information herein contained have been draught on the basis of available knowledge upon data sheet version. The user must make sure of the suitability and completeness of the information referring to the specific use of the product. Do not read this document as warranty of any specific property of the product. Since the use of the product is not under our direct control, it's the user's liability respect current rules in terms of hygiene and safety. We are not held liable for un-proper use.

Annex: Exposure Scenario.

1. Short title of Exposure Scenario 13: Using the resin paste

Main User Groups: SU21: Consumer uses: Private households (= general public = consumers)

Category of chemical product: PC9b additives, putties, plasters, modeling clay

Environmental Release Category: ERC8a: Wide dispersive indoor use of processing aids in open systems

ERC8d: Wide dispersive outdoor use of processing aids in open systems

2. Contributing scenario controlling environmental exposure for ERC8a, ERC8d

There is no assessment of exposure to the environment

2.2 Contributing scenario controlling consumer exposure for: PC9b

Product characteristics

Concentration of the substance in the mixture / article covers concentrations up to 35%

Physical form (at time of use): liquid / a



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vapor pressure: > 10 Pa

Used quantity:

Used quantity for event: 0.1 kg

Frequency and duration

of frequency of use: of 365 days / year

frequency of use: 5 times a day

duration of exposure per event: 10 min

Human factors not influenced by risk management

exposed skin it covers the area of skin contact: $\leq 22 \text{ cm}^2$

Other given operational conditions affecting consumers exposure

Room size 34 m³

It includes the use of a garage (34m³ FIRST) with typical ventilation

Conditions and measures related to protection of consumer (eg. Behavioral advice, personal protection and hygiene):

no action established specific risk management, as well as the operating conditions

3. Exposure estimation and reference to its source

Consumers

The ConsExpo model was used to estimate consumer exposure unless otherwise indicated. The predicted exposure should not exceed exposure limits applicable, if the risk management measures / operating conditions contained in Section 2 are implemented.

4. Guidance to Downstream User to evaluate if he works inside the boundaries set by the Exposure Scenario

If further measures of risk management / operating conditions, users should ensure that risks are limited at least at a level equivalent.