



SAFETY DATA SHEET

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Date : 13 / 5 / 2011

Supersedes : 15 / 9 / 2008

VMC V-3

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : VMC V-3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only. Material to use by hand or machine for polish and seal marble, terrazzo, hydraulic mosaic, polished cement and other kind of natural stone floors.

1.3. Details of the supplier of the safety data sheet

Company identification : COOR & KLEEVER
Brusi, 102
08006 Barcelona Spain
Tel. +34 93 209 08 00 - Fax. +34 209 89 82
coorkleever@coorkleever.com
www.coorkleever.com

1.4. Emergency telephone number

Phone nr : +34 93 209 08 00 [Office hours]

2. Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Carc. Cat. 2; R45
Muta. Cat. 3; R68
R67
Xi; R36/38
R52-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

- * **Health hazards** : Germ cell mutagenicity - Category 2 - Warning (CLP : Muta. 2) H341
Carcinogenicity - Category 1A - Danger (CLP : Carc. 1A) H350
Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -
Warning (CLP : STOT SE 3) H336
Eye irritation - Category 2 - Warning (CLP : Eye Irrit. 2) H319
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
- * **Environmental hazards** : Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP :
Aquatic Chronic 3) H412

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

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2. Hazards identification (continued)

Symbol(s)



Symbol(s)

: T : Toxic

R Phrase(s)

: R36/38 : Irritating to eyes and skin.

R45 : May cause cancer.

R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 : Vapours may cause drowsiness and dizziness.

R68 : Possible risks of irreversible effects.

S Phrase(s)

: S36/37 : Wear suitable protective clothing and gloves.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

S53 : Avoid exposure - obtain special instructions before use.

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

Contains

: Trichloroethylene

Labelling Regulation EC 1272/2008 (CLP)

* **Hazard pictograms**



* **Signal words**

: Danger

* **Hazard statements**

: H350 : May cause cancer.

H341 : Suspected of causing genetic defects.

H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

H336 : May cause drowsiness or dizziness.

H412 : Harmful to aquatic life with long lasting effects.

* **Precautionary statements**

• **Prevention**

: P280: Wear protective gloves, protective clothing, eye protection, face protection.
P273: Avoid release to the environment.

• **Response**

: P308+P313: If exposed or concerned : get medical advice.
P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

• **Disposal considerations**

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Contains

: Trichloroethylene

Special labelling

: Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)

2.3. Other hazards

Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.



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3. Composition/information on ingredients

Substance / Preparation : Preparation.
*** Hazardous component(s)** : This product is hazardous.

Substance name	Contents	CAS No	EC No	Index No	REACH Ref.	Classification
Trichloroethylene	< 80 %	79-01-6	201-167-4	602-027-00-9	01-2119490731-36-0000	Carc. Cat. 2; R45 Muta. Cat. 3; R68 R67 Xi; R36/38 R52-53 ----- Carc. 1B _ H350 Muta. 2 _ H341 Eye irrit. 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H336 Aquatic Chronic 3 _ H412

Preparation of Trichloroethylene (less than 80%) and natural waxes.

Other : Synonyms : Trichloroethene / Ethylene trichloride
Chemical Family: halogenated hydrocarbons

4. First aid measures

4.1. Description of first aid measures

Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice (show the label where possible).

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If you feel unwell, seek medical advice (show the label where possible).

Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : May cause cancer.
Suspected of causing genetic defects.
Causes serious eye irritation.
Causes skin irritation.
May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Note to physician : Treat symptomatically.

Emergency phone first aid : National Institute of Toxicology (Spain): +34 91 562 04 20.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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5. Fire-fighting measures (continued)

- Unsuitable extinguishing media** : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

- Flammable class** : Not flammable.
Hazardous combustion products : In contact with hot surfaces or flames, this substance emits toxic fumes. Phosgene. Hydrogen chloride. Chlorine.

5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : Equip cleanup crew with proper protection. Ventilate area. Avoid breathing dust, fume, gas, mist, vapours, spray.
For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Clean up methods** : Collect spills and put it into appropriated container. Recover the cleaning water for later disposal.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

- Handling** : This product is a preparation for the specific use of marble, terrazzo or hydraulic mosaic polishing. It is advisable to use the product expender device incorporated in VMC machines to reduce containers handling, spillage, and leakage and vapour formation. In case of manual utilization is mandatory the use of approved respiratory protection equipment. Use only in well-ventilated areas. When using, do not eat, drink or smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash thoroughly after handling. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area.

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7. Handling and storage (continued)

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.
Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep away from food, drink and animal feeding stuffs. Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place.
Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

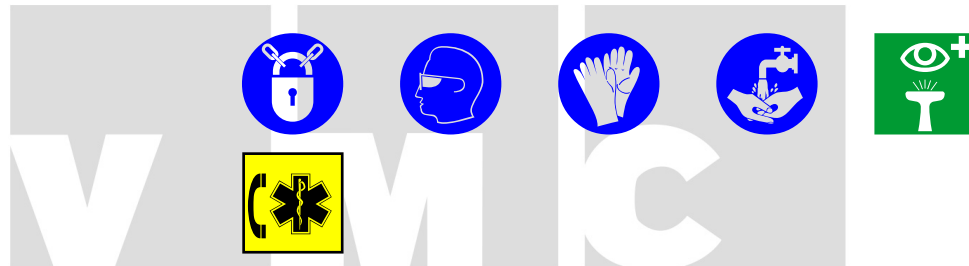
7.3. Specific end use(s)

Specific end use(s) : See section 1.

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection



Personal protection : Avoid all unnecessary exposure.
• Respiratory protection : Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.
• Hand protection : Wear suitable gloves resistant to chemical penetration.
• Skin protection : Wear suitable protective clothing.
• Eye protection : Goggles.
Technical protective measures : Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapour or dust mixtures.

8.2. Control parameters

Occupational Exposure Limits : Trichloroethylene : VLA-ED [ppm] : 50
Trichloroethylene : VLA-ED [mg/m³] : 273

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.
Colour : Amber.
Odour : Penetrating. Slightly similar to: Ether.
Odour threshold : No data available.

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9. Physical and chemical properties (continued)

pH value	: No data available.
Melting point [°C]	: No data available.
Decomposition point [°C]	: 110
Auto-ignition temperature [°C]	: 410
Flammability (solid, gas)	: No data available.
Flash point [°C]	: Not applicable in assay conditions.
Boiling point [°C]	: 87
Evaporation rate	: No data available.
Vapour pressure [hPa]	: 86 (20°C) 590 (70°C)
Relative density, liquid (water=1)	: No data available.
Density	: 5.5 kg/m ³
Solubility in water	: 1460 kg/m ³ (20°C)
Log Pow octanol / water at 20°C	: No data available.
Solubility	: Organic solvents. Soluble.
Viscosity at 40°C [mm ² /s]	: No data available.

9.2. Other information

Explosive properties	: No data available.
Explosion limits - upper [%]	: In the presence of an important energy source : 41%
Explosion limits - lower [%]	: In the presence of an important energy source : 11%
Oxidising properties	: No data available.
Log P octanol / water	: 2.4

10. Stability and reactivity

10.1. Reactivity

Reactivity	: Not established.
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10.2. Chemical stability

Chemical stability	: Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: May react violently with metals.
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10.4. Conditions to avoid

Conditions to avoid	: Light (daylight). Moisture. Heat sources.
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10.5. Incompatible materials

Materials to avoid	: Metals. Lithium (Li). Magnesium. Aluminium. Titanium (Ti). Barium (Ba). Sodium (Na). Strong bases. Strong acids.
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10. Stability and reactivity (continued)

10.6. Hazardous decomposition products

Hazardous decomposition products : Thermal decomposition generates : Toxic and combustible vapours. Phosgene. Hydrogen chloride. Chlorine.
The substance decomposes in contact with strong bases.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Based on available data, the classification criteria are not met.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Causes serious eye irritation.
Causes skin irritation.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : May cause cancer.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Toxicity information : Harmful to aquatic life with long lasting effects.

Ecological effects information

12.2. Persistence - degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

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12. Ecological information (continued)

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

General : Hazardous waste due to toxicity.
Dispose of this material at hazardous or special waste collection point or meanwhile an authorised waste manager.
Dispose in a safe manner in accordance with local/national regulations.
Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

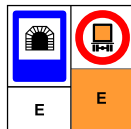
14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S. (Trichloroethylene)
UN N° : 2810
H.I. nr : 60
ADR - Class : 6.1
Labelling - Transport : 6.1



ADR - Classification code : T1
ADR - Group : III
ADR - Packing instructions : P001 R001 LP001
ADR - Limited Quantity : LQ 7
ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S. (Trichloroethylene)
UN N° : 2810
IMO-IMDG - Class or division : 6.1



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14. Transport information (continued)

IMO-IMDG - Packing group : III
IMO-IMDG - Packing instructions : P001 LP01
IMO-IMDG - Limited quantities : 5 L
IMO-IMDG - Marine pollution : YES
EMS-Nr : F-A S-A

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S. (Trichloroethylene)
UN N° : 2810
IATA - Class or division : 6.1
IATA - Packing group : III
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing instruction : 655
- Passenger and Cargo - Maximum Quantity/Packing : 60 L
IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 663
- Cargo only - Maximum Quantity/Packing : 220 L
IATA - Limited Quantities : 2 L
ERG-Nr : 6L

15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision : Revision - See : *
Commission Regulation (EU) No 453/2010
Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
vPvB: very persistent and very bioaccumulative
Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
List of relevant R phrases (heading 3) : R36/38 : Irritating to eyes and skin.
R45 : May cause cancer.
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the

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16. Other information (continued)

List of full text of H-statements in section 3

aquatic environment.
R67 : Vapours may cause drowsiness and dizziness.
R68 : Possible risks of irreversible effects.
: H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.
H341 : Suspected of causing genetic defects.
H350 : May cause cancer.
H412 : Harmful to aquatic life with long lasting effects.

Further information

: FDO.F.LABORI JUNCOSA

The contents and format of this SDS are in accordance with REACH Regulation (CE) N° 1907/2006 and the european agreement concerning the international carriage of dangerous goods by road (ADR).

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