



## Safety Data Sheet TEMPVER BLACK

Safety Data Sheet dated 30/4/2013, version 2

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier  
Mixture identification:  
Trade name: TEMPVER BLACK  
Trade code: 3401-BCZN900B2
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended use:  
Ceramic enamel. Industrial use only
- 1.3. Details of the supplier of the safety data sheet  
Company:  
Fenzi S.p.A. - Via Trieste 13/15 20067 - Tribiano (MI) - Italy  
Fenzi S.p.A. - Tel. n.. +3902906221 - Fax +39 02 90631216  
Competent person responsible for the safety data sheet:  
safety@fenzigroup.com
- 1.4. Emergency telephone number  
Fenzi S.p.A. - Tel. n.. +3902906221 - Fax +39 02 90631216

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### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:  
No specific hazards are encountered under normal product use.

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### SECTION 3: Composition/information on ingredients

- 3.1. Substances  
N.A.
- 3.2. Mixtures  
Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:  
20% - 25% (2-methoxymethylethoxy)propanol  
REACH No.: 01-2119450011-60-XXXX, CAS: 34590-94-8, EC: 252-104-2  
substance with a Community workplace exposure limit

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### SECTION 4: First aid measures

- 4.1. Description of first aid measures  
In case of skin contact:  
Wash with plenty of water and soap.  
In case of eyes contact:  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
In case of Ingestion:  
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.  
In case of Inhalation:  
Remove casualty to fresh air and keep warm and at rest.
- 4.2. Most important symptoms and effects, both acute and delayed  
None
- 4.3. Indication of any immediate medical attention and special treatment needed  
Treatment:  
None

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#### SECTION 5: Firefighting measures

- 5.1. Extinguishing media
    - Suitable extinguishing media:
      - Water.
      - Carbon dioxide (CO<sub>2</sub>).
    - Extinguishing media which must not be used for safety reasons:
      - Waterjet
  - 5.2. Special hazards arising from the substance or mixture
    - Do not inhale explosion and combustion gases.
    - Burning produces heavy smoke.
  - 5.3. Advice for firefighters
    - Use suitable breathing apparatus .
    - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
    - Move undamaged containers from immediate hazard area if it can be done safely.
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#### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
    - Wear personal protection equipment.
    - Remove persons to safety.
    - See protective measures under point 7 and 8.
  - 6.2. Environmental precautions
    - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
    - Retain contaminated washing water and dispose it.
    - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
    - Suitable material for taking up: absorbing material, organic, sand
  - 6.3. Methods and material for containment and cleaning up
    - Wash with plenty of water.
  - 6.4. Reference to other sections
    - See also section 8 and 13
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#### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
    - Avoid contact with skin and eyes, inhalation of vapours and mists.
    - Do not eat or drink while working.
    - See also section 8 for recommended protective equipment.
  - 7.2. Conditions for safe storage, including any incompatibilities
    - 5°C < T < 30°C
    - Keep away from food, drink and feed.
    - Incompatible materials:
      - Oxidizing agents, strong alkalis, strong acids. See, too, paragraph 10 below.
    - Instructions as regards storage premises:
      - Adequately ventilated premises.
  - 7.3. Specific end use(s)
    - None in particular
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#### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
  - (2-methoxymethylethoxy)propanol - CAS: 34590-94-8
    - TLV TWA - 50 ppm - 308 mg/m<sup>3</sup> (Italia)
    - TLV STEL - 150 ppm -- 909 mg/m<sup>3</sup>
  - DNEL Exposure Limit Values
    - N.A.
  - PNEC Exposure Limit Values

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N.A.

#### 8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Chemical protection clothing.

No special precaution must be adopted for normal use.

Protection for hands:

Suitable gloves type:

NBR (nitrile rubber).

Not needed for normal use.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour :	Black
Odour:	characteristic
Odour threshold:	N.A.
pH:	not applicable
Melting point / freezing point:	not applicable °C
Initial boiling point and boiling range:	not available °C
Solid/gas flammability:	not applicable
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	not available
Flash point:	70 °C
Evaporation rate:	N.A.
Vapour pressure:	not applicable
Relative density:	1,7
Solubility in water:	partial
Solubility in oil:	not available
Partition coefficient (n-octanol/water):	not available
Auto-ignition temperature:	not applicable °C
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	not applicable
Oxidizing properties:	not applicable
Viscosity :	12500 cPa.s (25C°)

### 9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid



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Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

Carbon oxides Nitrogen Oxides Oxides of silicon.

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#### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the main substances found in the mixture:

TEMPVER BASIC BLACK -

LD50 (ORAL RAT) > 2000 mg/Kg (data based on components)

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#### SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Aquatic toxicity: LC50/EC50 >100 mg/l (data based on components)

N.A.

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

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#### SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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#### SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

14.6. Special precautions for user

N.A.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Environmental Pollutant:

N.A.

14.8 Exemptions

N.A.

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#### SECTION 15: Regulatory information

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

3401-BCZN900B2/2



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Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP)

Regulation (EU) n. 453/2010 (Annex I)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Volatile Organic compounds - VOCs = 381.53 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

15.2. Chemical safety assessment

No

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## SECTION 16: Other information

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

SECTION 3: Composition/information on ingredients

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 10: Stability and reactivity

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.



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DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.
N.A.:	N.A.
N.D.:	