

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

1.1. Product identifier

CALDE™ MIX M S 86 BTI

1.1.1. Dates and Modifier of the Safety Data Sheet

Creation Date 11/06/2008 (DD/MM/YY)

Modification Date: 15/05/2012

Modifier JP Targe

1.1.2. SDS (Safety Data Sheet) status:

New

1.2. Relevant identifier uses of the substances or mixture and uses advised against:

1.2.1. Relevant identified uses:

Unshaped refractory material

Restricted to industrial or professional users for application as safety or wear linings and maintenance of both in all industrial devices at temperatures > 1000°C.

1.2.2. Uses advised against:

Non relevant

1.3. Details of the supplier of the safety data sheet:

1.3.1. Supplier:

CALDERYS REACH Service

1.3.2. Street address:

4, allée de Lausanne – Bât. F

1.3.3. Country ID/Post code/Place:

F-38070 Saint Quentin Fallavier - France

1.3.4. Telephone number (and telefax):

Phone: +33 (0)4 74 99 99 40 - Fax: +33 (0)4 74 99 99 66

1.3.5. E-mail:

REACH@calderys.com

1.3.6. National contact's name:

J-P.Targe - Tel +33 (0)4.74.99.99.40 - Fax 33 (0)4.74.99.99.66 : CALDERYS France - Research Centre - 4 allee de Lausanne - F-38070 Saint Quentin Fallavier
jean-pierre.targe@calderys.com

1.4. Emergency telephone number:

UK: The UK National Poisons Emergency number is 0870 600 6266 - (Outside the UK: +44 870 600 6266)

1.5. Opening hours:

Non relevant

SECTION 2: Hazards identification

2.1 Classification of the substance or the mixture:

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 [CLP/GHS] on classification, labeling and packaging of substances and mixtures.

2.1.2. Classification according to Directive 1999/45/EC [DPD]

This product does not meet the criteria for classification in any hazard class according to Directive 1999/45/EC [DPD]

2.1.3 Additional information:

For full text of H, EUH-phrases: see section 16.

For full text of R-phrases: see section 16.

2.2. Label elements:

2.2.1. Labelling according to directive 1999/45 EC [DPD]:

Non relevant

2.2.1.1. Classification according to the GHS/CLP regulation:

Non relevant

2.2.1.2. Signal word:

Non relevant

2.2.2. Symbol(s) in black/white or colour according to directive 1272/2008 [CLP / SGH]:

Non relevant

2.2.2.1. Symbol(s) in black/white or colour according to the Regulation (EC) No 1272/2008 [CLP/GHS]:

Non relevant

2.2.3. Indication(s) of danger:

Non relevant

2.2.4. Risk phrase(s) R (For full text of R phrases: see section 16)

Non relevant

2.2.5. Safety phrase(s) S ; (For full text of S phrases: see section 16)

Non relevant

2.2.6. Applicable label elements in accordance with sections A and B of annex V to the DPD (special provisions for certain mixtures):

Non relevant

2.2.7. Authorization number(s) from ECHA:

Non relevant

2.2.8. Labelling according to the Regulation (EC) No 1272/2008 [CLP/GHS]:

Non relevant

2.2.9. Applicable label elements in accordance with sections A and B of annex V to the DPD (special provisions for certain mixtures):

Non relevant

2.3. Other hazards:

Presence of a substance classified as CMR but below the European specific limits, see the SECTION 16.

2.3.1. SVHC (Substance of Very High Concern):

Contains a substance placed in the ECHA candidate list (Annex XV) : Diboron trioxide (CAS: 1303-86-2)

2.3.2. CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

No

2.3.3. PBT : Persistent, Bioaccumulative and Toxic

No

2.3.4. vPvB: very Persistent very Bioaccumulative

No

2.3.5. POP : Persistent Organic Pollutant

No

2.3.6. Formation of air contaminants during hardening or processing:

No

2.3.7. Dust explosion hazard:

Dust explosion classes St 0

SECTION 3. Composition / Information on ingredients

3.2. Mixture:

3.2.1. Non hazardous components

| Component | CAS N° / EC N° | Weight % |
|---|---------------------------------------|-----------|
| Magnesia | CAS : 1309-48-4 Einecs : 215-171-9 | >=50 <100 |
| Aluminium oxide - Nr. REACH. 01-2119529248-35 | CAS : 1344-28-1 Einecs : 215-691-6 | >=10 <25 |

3.2.2. Hazardous components

| Component | CAS N° / EC N° | Weight % |
|-----------|----------------|----------|
|-----------|----------------|----------|

Diboron trioxide
REACH: T ; Repr.Cat.2, R60-R61 --- CLP: Repr.1B;
H360FD

CAS : 1303-86-2
Einecs : 215-125-8 >=0.25 <0.5

SECTION 4: First aid measures

4.1. Description of first aid measures

4.1.1. Eyes:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

4.1.2. Skin:

Wash with soap and water, if irritation persists seek medical advice.

If skin irritation or rash occurs: Get medical advice/attention.

4.1.3. Ingestion:

Non relevant

4.1.4. Inhalation:

If there is a sensation of nausea or dizziness, remove to fresh air and seek medical attention.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Non relevant

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

Non relevant

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

5.1.1. Suitable fire-fighting methods :

In case of fire use water based extinguishers or hosepipe.

5.1.2. Unsuitable extinguishing media:

Non relevant

5.2. Special hazards arising from the substance or mixture

Non relevant

5.2.1. Hazardous decomposition products

None

5.3. Advice for firefighters

5.3.1. Personal precautions:

Personal precautions : see Section 8.

Fire fighter clothing according to European standard EN469.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

6.1.1.1. Protective equipment:

Personal precautions : see Section 8.

6.1.1.2. Emergency procedures

Non relevant

6.1.2. For emergency responders

Non relevant

6.2. Environmental precautions

Non relevant

6.3. Methods and material for containment and cleaning up

6.3.1. Appropriate containment techniques may include any of the following:

6.3.1 - (a) bunding, covering of drains;

Non relevant

6.3.1 - (b) capping procedures.

Non relevant

6.3.2. Appropriate advices on how to clean-up a spill. Appropriate clean-up procedures may include any of the following:

6.3.2. - (a) neutralisation techniques;

Non relevant

6.3.2. - (b) decontamination techniques;

Non relevant

6.3.2. - (c) adsorbent materials;

Non relevant

6.3.2. - (d) cleaning techniques;

No special precautions for cleaning or removal.

6.3.2. - (e) vacuuming techniques;

Non relevant

6.3.2. - (f) equipment required for containment/clean-up (include the use of non-sparking tools and equipment where applicable).

Non relevant

6.3.3. Other information relating to spill and releases:

6.3.3.1. Non allowed techniques:

Non relevant

6.4. Reference to other sections

6.4.1. References:

Personal precautions : see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

7.1.1. Protective measures:

7.1.1.- (a) Measures to prevent fire:

Non relevant

7.1.1.- (b) Measures to prevent aerosol and dust generation:

Avoid bulk handling susceptible to create dust.

7.1.1.- (c) Measures to protect environment:

Non relevant

7.1.2. Advice on general occupational hygiene:

When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities:

7.2.1. Technical measures and storage conditions:

Engineering measures,such as local dust extraction, to ensure compliance with Occupational Exposure Limits.

Avoid bulk handling susceptible to create dust.

Stacking height: up to 2 pallets maximum.

7.2.2. Recommended packing:

Multi-ply paper sacks or big-bags.

Plastic shrink or cling film.

Wooden pallet with shrink film.

7.2.3. Requirements for storage rooms and vessels:

Store in dry conditions

Keep only in the original container in a cool, well-ventilated place

7.2.4. Storage class (national):

Non relevant

7.2.5. Further information on storage conditions:

Non relevant

7.3. Specific end uses:

Non relevant

7.3.1. Recommendations:

Stacking height: up to 2 pallets maximum.

7.3.2. Industrial sector, specific solutions:

Non relevant

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

| Substance | CAS N° / EC N° | L.T.E - 8 hr TWA mg/m3 |
|--|---------------------------------------|---------------------------|
| Magnesia | CAS : 1309-48-4 Einecs : 215-171-9 | 4 |
| Aluminium oxide - Nr. REACH. 01-2119529248-35 | CAS : 1344-28-1 Einecs : 215-691-6 | 1,5 |
| Diboron trioxide REACH: T ; Repr.Cat.2, R60-R61 --- CLP: Repr.1B; H360FD | CAS : 1303-86-2 Einecs : 215-125-8 | 2 |

8.2. Exposure Controls:

The chart above mentionnes the lowest exposure limit values known in the EU for each substance.

All the values indicated in the chart above are available in the GESTIS database: http://bgia-online.hvbg.de/LIMITVALUE/WebForm_gw.aspx

Some values, not indicated in the GESTIS database, are coming from list placed in the 3 European directives dedicated to indicative occupational exposure limit values. Please find below their references.

1st list: DIRECTIVE 2000/39/EC / 2nd list: DIRECTIVE 2006/15/EC / 3rd list: DIRECTIVE 2009/161/EU

Approved Occupational Exposure values indicated for total inhalable and/or respirable dust according to GESTIS.

Customers are advised to check the limit values indicated , that could have been up-dated (in GESTIS) since the creation of this SDS.

8.2.1. Appropriate engineering controls

Provide appropriate exhaust ventilation and filtering at the places where dust can be generated.

8.2.2. Individual protection measures, such as personal protective equipment

8.2.2.1. Good occupational hygiene practices

For details about the following HS personal devices, please see the annex dedicated to.
(Section .17)

8.2.2.2. Personal protective equipment according to the 89/686/EEC

8.2.2.2. (a) Eye/face protection

Wear safety glasses with lateral protection (166 rev. S4KN2)



8.2.2.2. (b) Skin protection

Standard industrial clothing is suitable for installations at ambient temperatures (ISO 6942)
Do not shake the working clothes. Do not remove dust with compressed air.



8.2.2.2. (c) Hands:

Wear leather security gloves (EN 388-2003).



8.2.2.2. (d) Respiratory protection

Maintain adequate ventilation whenever dust is present.

Consult the local regulation.

Wear appropriate anti-dust mask (EN149:2009 FFP3)

Use a filtering respiratory device, in case of airborne concentrations are expected to exceed exposure limits.



8.2.3. Environmental exposure controls

Non relevant

8.2.4. Exposure scenario:

Read carefully the relevant Exposure Scenario for borates placed as annex of the §17

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Name of the characteristic | Value |
|---|---|
| Appearance: | Dry mixture of aggregates and fine powders |
| Color: | White |
| Odour: | No particular odour |
| Melting point | > 1700 °C |
| Vapour density: | Non relevant |
| pH: | Unable to determine. Mixture of dry minerals. |
| Segregation: | Non relevant |
| Boiling point: | Non relevant |
| Flash point: | Non relevant |
| Inflammability: | No |
| Explosive properties: | No |
| Combustive properties: | No |
| Solubility solvent: | No |
| Partition coefficient n-octanol/water: | Non relevant |
| Viscosity: | Non relevant |
| Hydrosolubility: | No |

9.2. Other informations:

All non relevant data are linked to the nature of our products - mineral mixtures.

SECTION 10: Stability and reactivity

10.1. Reactivity

No

10.2. Chemical stability

Mixture of inert minerals.

10.3. Possibility of hazardous reactions

No hazards to our knowledge

10.4. Conditions to avoid

Mixture of inert minerals.

10.5. Incompatible materials

No hazards to our knowledge
Mixture of inert minerals.

10.6. Hazardous decomposition products
None

SECTION 11: Toxicological information

Data linked to the pure substance or its regulatory concentration

Substance as EU/REACH:

 _Diboron trioxide, CAS Nr.1303-86-2 - EINECS Nr.215-125-8 - Label: T, Repr.Cat.2; R60, R61 - if
 Cn = 3,1 %

Substance as GHS/CLP:

 _Diboron trioxide - CAS Nr.1303-86-2 - EINECS Nr.215-125-8 - Label: Repr.1B; H360F, H360D

11.1. Information on toxicological effects.

11.1.1. Substances.

Non relevant

11.1.1.1. The relevant hazard classes for which information shall be provided, are:

Non relevant

11.1.2. Mixtures.

11.1.2.1. The relevant effects classes for which information shall be provided, are:

Non relevant

11.1.2.3. Other health effects of the mixture.

This product does not meet the criteria for classification in any hazard class according to Directive 1999/45/EC [DPD]

11.1.3. The substance or mixture is not classified for a particular hazard class.

This product does not meet the criteria for classification in any hazard class according to Directive 1999/45/EC [DPD]

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 [CLP/GHS].

SECTION 12: Ecological information

12.0. General Information:

12.1. Toxicity

12.1.1. Air:

Non relevant

12.1.2. Water:

Non relevant

12.1.3. Soil :

The basic aggregate, or magnesite, in contact with moisture over a prolonged period of time forms hydrates which are slightly alkaline. These hydrates are commonly used for neutralising acid soil.

12.1.4. Flora:

Unknown at that date

12.1.5. Fauna:

Unknown at that date

12.1.6. Bee:

Non relevant

12.2. Persistence and degradability

No

12.3. Bioaccumulative potential

No

12.4. Mobility in soil

Unknown at that date

No

12.5. Results of PBT and vPvB assessment

No

12.6. Other adverse effects

No

12.6.1. Miscellaneous:

The unused product is not considered dangerous for the environment
Biochemical Oxygen Demand (BOD): No
Adsorbable Organically Halogen (AOX): No.
Volatile Organic Compounds (VOC): No.
Chemical Oxygen Demand (COD): No.
POP: Persistent Organic Pollutant: No.

SECTION 13: Disposal considerations

13.0. DIRECTIVE 2008/98/EC ON INDUSTRIAL WASTE.

13.1. WASTE TREATMENT METHODS

As this product is a mixture of minerals, all kind of methods are relevant.

The unused product is not considered dangerous for the environment

Unused material can be disposed according to local regulations and statutory EU provisions

13.1.1. DISPOSAL OPERATIONS

D 1 Deposit into or on to land (e.g. landfill, etc.)

D 3 Deep injection (e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.)

13.1.2. RECOVERY OPERATIONS

Non relevant

13.1.3. PROPERTIES OF WASTE WHICH RENDER IT HAZARDOUS

Non relevant

13.2. POTENTIAL DANGER FROM THE WASTE:

The unused product is not considered dangerous for the environment

The basic aggregate, magnesite will slowly change in contact with service water to form hydrates which have a higher volume than the original material. This property should be taken into account when dumping the used or unused material in landfill sites destined for construction purposes.

Before destruction and disposal of the refractory lining, customers are advised to evaluate any changes to the product that may be induced by the introduction of substances, or operating conditions outside the control of the Vendor

13.3. EUROPEAN LIST OF HAZARDOUS WASTES

As this product can be used in multiple industries, all categories are potentially valid.

10 02 : Wastes from the iron and steel industry

10 02 06 : Spent linings and refractories

10 03 : Wastes from aluminium thermal metallurgy

10 03 99 : Wastes not otherwise specified

10 04 : Wastes from lead thermal metallurgy

10 04 08 : Spent linings and refractories

10 05 : Wastes from zinc thermal metallurgy

10 05 07 : Spent linings and refractories

10 06 : Wastes from copper thermal metallurgy

10 06 08 : Spent linings and refractories

10 07 : Wastes from silver, gold and platinum thermal metallurgy

10 07 06 : Spent linings and refractories

10 08 : Wastes from other non-ferrous thermal metallurgy

10 08 07 : Spent linings and refractories

10 09 : Wastes from casting of ferrous pieces

10 09 99 : Wastes not otherwise specified

10 10 : Wastes from casting of non-ferrous pieces

10 10 99 : Wastes not otherwise specified

10 11 : Wastes from manufacture of glass and glass products

10 11 08 : Spent linings and refractories

10 12 : Wastes from manufacture of ceramic goods, bricks, tiles and construction products

10 12 07 : Spent linings and refractories

10 13 : Wastes from manufacture of cement, lime and plaster and articles and products made from them

10 13 08 : Spent linings and refractories

SECTION 14: Transport information

ADR/RID/ADN class:

Non relevant to the UN classification on dangerous goods
The substance is not a dangerous good according to 3.2, ADR/RID

ICAO-TI / IATA-DGR class:

Non relevant to the UN classification on dangerous goods

IMDG (marine) class:

Non relevant to the IMDG classification on dangerous goods

14.1. UN number

Non relevant

14.2. UN proper shipping name

Non relevant

14.3. Transport hazard class(es)

Non relevant to the UN classification on dangerous goods

14.4. Packing group:

Non relevant

14.5. Environmental hazards:

Non relevant

SECTION 15: Regulatory information

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

15.1.1. Directive 67/548/EEC on dangerous substances.

This product does not meet the criteria for classification in that directive.

15.1.2. Directive 1999/45/EC on dangerous preparation.

This product does not meet the criteria for classification in that directive.

15.1.3. Regulation 1907/2006/EC on REACH regulation.

This product does not meet the criteria for classification in this regulation.

15.1.4. Regulation 1272/2008/EC on the GHS/CLP, including the EC 286/2011 (2nd ATP)

This product does not meet the criteria for classification in this regulation.

15.1.5. Regulation 453/2010/EC amending Regulation (EC) No 1907/2006

This SDS has been created according to this regulation.

15.1.6. Directive 2006/8/EC on CMR and hazardous substances for environment.

This product does not meet the criteria for classification in that directive.

15.1.7. Directive 94/9/EC on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX 95)

This product does not meet the criteria for classification in that directive.

15.1.8. Directive 1999/92/EC on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres (ATEX 137)

This product does not meet the criteria for classification in that directive.

15.1.9. Decision No 2455/2001/EC on the list of priority substances in the field of water policy.

This product does not meet the criteria for classification in that directive.

15.1.10. MONTREAL Protocol on Substances That Deplete the Ozone Layer (7th revision)

This product does not meet the criteria for classification in that protocol: Mixture of inert minerals.

15.1.11. IBC: Institutional Biosafety Committee

This product does not meet the criteria for any biosafety classification: Mixture of inert minerals.

15.1.12. MARPOL 73/78 (the International Convention for the Prevention of Pollution from Ships)

This product does not meet the criteria for classification in that directive.

15.1.13. STOCKHOLM convention on persistent organic pollutants (POPs)

This product does not meet the criteria for classification in that directive.

15.1.14. ROTTERDAM Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

This product does not meet the criteria for classification in that directive.

15.1.15. Directive 96/29 EURATOM :

This product does not meet the criteria for classification in that directive.

15.2. Chemical Safety Assessment

This product doesn't require a Chemical Safety Assessment.

15.3. Occupational illness

Commission Recommendation of 19 September 2003 concerning the European schedule of occupational diseases (Text with EEA relevance) (notified under document number C(2003) 3297)
Non relevant

15.5.- (a) TA Air/TA Luft (German Technical Instructions on Air Quality Control)

Contains: Diboron trioxide; CAS Nr. 1303-86-2 - Reproduction Toxic Substances 5.2.7.1.3

15.5.- (b) WgK: German Water hazard class (from the Administrative Regulation on substances hazardous

to water - assessment):

The product, (according to German regulation) is classified as (in the sense of 17.05.1999):
Non hazardous substance for water

15.5.- (c) Technical rules for dangerous substances (Technische Regeln für Gefahrstoffe)

Unknown at that date

15.5.- (d) Nomenclature of classified installations for environmental protection.

non relevant

SECTION 16: Other information

16.0. Additionnal safety information:

As announced in the Section.3 and the Section 11, some hazardous substances are present in this product. Therefore, because their maximum amount are lower than their specific limits indicated in the different UE directives, the product does not need any specific label nor risk or safety sentences. Find below the substances and the risk and safety phrases linked to these substances.

16.1 GHS/CLP Pictograms

non relevant

16.1.1. Symbol(s) in black/white or colour according to the Regulation (EC) No 1272/2008 [CLP/GHS]:

Non relevant

16.1.2. Labelling according to the Regulation (EC) No 1272/2008 [CLP/GHS]:

Non relevant

16.1.3. Classification according to the GHS/CLP regulation:

Non relevant

16.1.4. Signal word:

Non relevant

16.1.5. GHS/CLP Hazard statement phrases (H - EUH):

Non relevant

16.2. Hazardous substances present, below EU classification limits:

16.2.1. Substance as EU/REACH:

_ Diboron trioxide, CAS Nr.1303-86-2 - Einecs Nr.215-125-8 - Label: T, Repr.Cat.2; R60, R61 - if Cn = 3,1 %

16.2.2. Substance as GHS/CLP:

_ Diboron trioxide - CAS Nr.1303-86-2 - Einecs Nr.215-125-8 - Label: Repr.1B; H360F, H360D

16.3. EU/REACH Risk phrases

R60: May impair fertility.

R61: May cause harm to the unborn child.

16.4. EU/REACH Safety phrases

S22: Do not breathe dust.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

16.5. GHS/CLP Hazard statement phrases (H - EUH):

H360F : May damage fertility.

H360D : May damage the unborn child.

16.6. GHS/CLP Precautionary statement phrases (P)

P260: Do not breathe dust.

P284: Wear respiratory protection.

16.8. Other informations :

This safety data sheet (SDS) has been compiled according to Directive 453/2010/CE

This safety data sheet (SDS) has been compiled according to Directive 1999-45-CE

This safety data sheet (SDS) has been compiled according to annexe II of the CE 1907/2007 (18th of december 2006) regulations concerning the adoption of REACH

The limits shown are from annex I of the European Directive 67/548 EEC modified on 17th of March 2007.

The limits shown are from annex VI of the GHS as of 10th of March 2010

SDS status :

| Modifier | JP Targe | Modification Date : 15/05/2012 |
|-----------------|-----------------|---------------------------------------|
|-----------------|-----------------|---------------------------------------|

Modification:

New

As this SDS was created according to the last EU recommendation; (EU) No 453/2010 of 20th of May 2010, all sections and sub-sections have been modified.

Acronyms and abbreviations used:

ADR: European regulation on transport of dangerous goods by road.

CAS: Chemical Abstracts Service

CLP : Classification, Labelling and Packaging of chemicals

CSR : Chemical Safety Report

ECHA : European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substance.

GHS/CLP: Globally Harmonized System of Classification, Labelling and Packaging of chemicals

IATA-DGR: Dangerous Goods Regulation by the International Air Transport Association

ICAO-TI: Technical Instruction by the International Air Transport Association

IMDG: International Maritime code for Dangerous Goods.

REACH : Registration, Evaluation, Authorisation and Restriction of Chemical substances

RID: International regulation on transport of dangerous goods by railway.

17. Annexes:

Attached annex : Medical toxicology units

Attached annex: HS Devices - Personal protection

Annex: MEDICAL TOXICOLOGY UNITS

Greece - ΕΛΛΑΣ, Αθήνα Αθηνών:

Νοσοκομείο Παιδων "Αγλαΐα Κυριακού" - 11527 Αθήνα - Τηλ: +30 1 779 3777 - Fax: +30 1748 6114

United Kingdom:

The UK National Poisons Emergency number is 0870 600 6266
 (Outside the UK: +44 870 600 6266)

France:

système ORFILA, tél: 33 (0)1.45.42.59.59 (24h/24h)

Italia:

Roma : Centro Antiveleni, Dipartimento di Tossicologia Clinica, Universita Cattolica del Sacro Cuore, Largo Agostino Gemelli 8, I-00168 Roma - Telefono di emergenza: +39 06 305 4343

Nederland:

Rijkinstituut voor Volksgezondheid, Antonie van Leeuwenhoeklaan 9, 3720BA Bilthoven -
 Tel: +31 302 541 5 11 – Fax: +31 302 748 888

España:

Servicio Nacional de Toxicología, c/Luis Cabrera, 9 – 28002 Madrid, Tel: +34 915 62 04 20
 Unitat de Toxicologia Clinica, Servicio de Urgencias, Hospital Clinic I Provincial de Barcelona,
 C/Villarroel, 170, E-08036 Barcelona - Telèfon d'urgències: +34 93 227 98 33 or +34 93 227 54 00
 bleep 190 - Fax: +34 93 227 56 93

Hungary - Magyarország

Egészségügyi Toxikológiai Tájékoztató Szolgálat - 1097 Budapest, Nagyvárad tér
 2. - Telefon: +36 80 20 11 99, Fax: +36 1 476 1138

Romania:

S.O.S Vitan Birzesti 9, Sector 4, 75889 Bucureşti - Tel: +401 6 34 38 90 135 – Fax: +401 3 21 02 60
 Departamentul de Toxicologie Clinică, Spitalul de Urgență Floreasca, Calea Floreasca, Bucureşti - De
 telefon de urgență: +40 21 230 8000

Belgique:

Brussels / Bruxelles : Centre Anti-Poisons/Antigifcentrum, Hôpital Militaire Reine Astrid, Rue Bruyn,
 Brussels B -1120 - Emergency telephone: +32 70 245 245 - Fax: +32 2 264 9646

Denmark:

Giftinformationscentralen - Bispebjerg Hospital, Bispebjerg Bakke 23, 60, 1, DK-2400 København NV -
 Nødtelefon, offentlige: +45 82 12 12 12

Osterreich:

Vergiftungsinformationszentrale, Allgemeines Krankenhaus Waehringer Geurtel 18-20, Wien 1090 -
 Telephone: +43 1 40 400 2222

Australia:

1- South Australian Poisons Information Centre Women's and Children's Hospital, 72 King William
 Road North Adelaide SA 5006 - Tel: +61 82 04 72 22 - Fax: +61 82 04 60 49

2 - Canberra A.C.T. Poisons Information Service, Woden Valley Hospital, Garran, Yamba Drive -
 Tel: +61 62443333 / +61 62852852 - Fax: +61 6244 3334

India:

Poison Information Centre National Institute of Occupational Health Meghani Nagar, Ahmedabad -
 India 320016 - Tel: +91-272-867351 - Fax: +91-272-866630

RSA :

Poison Information Centre, University of Cape Town, Department of Paediatrics and Child Health, Red
 Cross War Memorial Children's Hospital, Klipfontein Road, Rondebosch, Cape 7700, South Africa -
 Tel: +27 21 658 5308 - Fax: +27 21 689 1287

Brazil:

Centro de Informacao Toxicologica, Rua Domingos Cresencio, 132/8 andar CEP 90650-090 Porto
 Alegre-RS - Tel: +55 51-223-6110 - Fax: +55 51 2299067

Poland - Polska:

Warszawa, Poison Control Warszawie i Centrum Informacji, Szpital Praski, Al. Solidarności 67, P-03
 401 Warszawa - Telefon alarmowy: +48 22 619 66 54, +48 22 619 08 97

Russia - Российская Федерация:

МЧС России - Центральный офис: 109012 Г.МОСКВА, ТЕАТРАЛЬНЫЙ ПР.,3 - Телефон: (495)

449-99-99 или 122 (мобильный телефон) - Сайт:
<http://www.mchs.gov.ru> Исследования и прикладной токсикологии
Центра (RATC) Федерального медико-биологического агентства, 3 Большая Сухаревская
площадь, Блок 7, Москва 129090 - Телефон экстренной связи: +7 495 628 16 87 (только на
русском)

Finland - SUOMI

Myrkytystietokeskuksen P.O.B 790 (Tukholmankatu 17), SF - 00029 HUS, Helsinki -
Puhelin: +358 9 471 977, Fax: +358 9 4717 47 02

Norway - NORGE

Gift Informasjon, Direktoratet for Sosial-og helsedirektoratet, P.O. Box 7000, St. Olavs Plass, 0130
Oslo - Emergency telefon: +47 22 591300

Sweden - SVERIGE

Svenska Giftinformationscentralen, Karolinska sjukhuset, SE-171 76 Stockholm - Telefonnummer för
nödsituationer: +46 8 33 12 31 (International) 112 (Nationella)

Germany - DEUTSCHLAND

Giftnotruf Berlin, Berliner Betrieb für Zentrale Gesundheitliche Aufgaben, Institut für Toxikologie,
Oranienburger Straße 285, 13437 Berlin - Notrufnummer: +49 30 19240

Bulgaria - България

Национална Токсикологична информационен център, Институт за спешна медицинска
"Пирогов", 21 Totleben Boulevard, 1606 София - Телефон за спешни случаи: +359 2 9154 409

Croatia - Hrvatska

Otrovi Kontrolni centar, Institut za medicinska istraživanja i medicinu rada, Ksaverska cesta 2, PP Box
291, HR-10000 Zagreb - Hitna Telefon: +385 1 234 8342

Czech Republic - česká republika

Toxikologické informační středisko, Klinika pro pracovní lékařství, 1. lékařská fakulta Univerzity
Karlové, Na Bojišti 1, 128 00 Praha 2 -
~~2101 0203 nabo +42 2 2101 5402 Fax: +42 2 2101 1570~~ Nouzové telefonní číslo: +42 2

Turkey - Türkiye

Toksikoloji Anabilim Dalı ve Zehir Merkezi, Refik Saydam Hıfzıssıhha Merkez Araştırma Enstitüsü,
Cemal Gürsel Cad yok. 18, Sıhhiye, Ankara 06100 - Acil telefon numarası: 0 800 314 7900
(Türkiye), veya +90 0312 433 70 01 - Faks: +90 0312 433 70 00

| ROUTE OF EXPOSURE | | | |
|---|------------------------|-----------------------|---------------------|
| EYES | SKIN | HANDS | INHALATION |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes 340 rev | Gloves 388 - 3111 | Mask FFP3 |
| DEDICATED USAGE: Non labelled, cast, hydraulic bonded products, cold conditions. | | | |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes ISO6942 | Gloves 407 - 2122 | Mask FFP3 |
| DEDICATED USAGE: Non labelled, cast, hydraulic bonded products, hot conditions. | | | |
| Face shield 166 rev, F4KN2 | Clothes 340 rev | Gloves 388 - 3111 | Mask FFP3 |
| DEDICATED USAGE: Non labelled, gunned, hydraulic bonded products, cold conditions. | | | |
| Face shield 166 rev, F4KN2 | Clothes ISO6942 | Gloves 407 - 2122 | Mask FFP3 |
| DEDICATED USAGE: Non labelled, gunned, hydraulic bonded products, hot conditions. | | | |
| Face shield 166 rev, F4KN2 | Clothes 340 rev | Gloves 388 - 3111 | Mask FFP3 |
| DEDICATED USAGE: Non labelled chemical bonded gunning mixes, cold installation | | | |
| Face shield 166 rev, F4KN2 | Clothes ISO6942 | Gloves 407 - 2122 | Mask FFP3 |
| DEDICATED USAGE: Non labelled chemical bonded gunning mixes, hot installation | | | |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes 340 rev | Gloves 388 - 3111 | Mask FFP3 |
| DEDICATED USAGE: Labelled hydraulic bonded products, cold installation | | | |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes ISO6942 | Gloves 407 - 2122 | Mask EN 141:2000 |
| DEDICATED USAGE: Labelled hydraulic bonded products, hot installation | | | |
| Face shield 166 rev, F4KN2 | Clothes ISO6529-463 | Gloves 3121 - 1994 | Mask Local rules |
| DEDICATED USAGE: Phosphate bonded products | | | |
| Face shield 166 rev, F4KN2 | Clothes ISO17491-3 | Gloves 3121 - 1994 | Mask Local rules |
| DEDICATED USAGE: Sodium silicate bonded products | | | |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes 340 rev | Gloves 388 - 3111 | Mask EN 141:2000 |
| DEDICATED USAGE: Labelled dry mixes | | | |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes 340 rev | Gloves 388 - 3111 | Mask FFP3 |
| DEDICATED USAGE: Non labelled dry mixes | | | |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes 340 rev | Gloves 388 - 3111 | Mask Local rules |
| DEDICATED USAGE: Non labelled plastics or ramming mixes | | | |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes 340 rev | Gloves 388 - 3111 | Mask FFP3 |
| DEDICATED USAGE: Resin bonded products, cold installation. | | | |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes ISO6942 | Gloves 407 - 2122 | Mask EN 141:2000 |
| DEDICATED USAGE: Resin bonded products, hot installation | | | |
| Glasses with lateral protection 166 rev, S4KN2 | Clothes 340 rev | Gloves 388 - 3111 | Mask Local rules |
| DEDICATED USAGE: Non labelled cement, patched, sprayed or trowelled products | | | |