

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

### 1.1. Product identifier

CALDE™ PATCH SC 88

#### 1.1.1. Dates and Modifier of the Safety Data Sheet

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

**Modification Date:** 28/02/2012

**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

**16.1.4. Signal word:**

Non relevant

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

Non relevant

**2.2.3. 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:**

No.

**2.3.1. SVHC (Substance of Very High Concern):**

No

**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**

**3.2.1. Non hazardous components**

<b>Component</b>	<b>CAS N° / EC N°</b>	<b>Weight %</b>
Aluminium oxide - Nr. REACH. 01-2119529248-35	CAS : 1344-28-1 Einecs : 215-691-6	>=50 <100
Kaolinite - REACH: Substance exempted in accordance with Annex V.7	CAS : 1318-74-7 Einecs : 215-286-4	>=10 <25

## **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

**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
Aluminium oxide - Nr. REACH. 01-2119529248-35	CAS : 1344-28-1 Einecs : 215-691-6	1,5

Kaolinite - REACH: Substance exempted in accordance with Annex V.7

CAS : 1318-74-7  
Einecs : 215-286-4  
No data

## 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](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.

Contains some substances without any approved Occupational Exposure values

### 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

## SECTION 9: Physical and chemical properties

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

#### Name of the

characteristic	Value
<b>Appearance:</b>	Dry mixture of aggregates and fine powders
<b>Color:</b>	Grey
<b>Odour:</b>	No particular odour
<b>Melting point</b>	> 1600 °C
<b>Vapour density:</b>	Non relevant
<b>pH:</b>	Unable to determine. Mixture of dry minerals.
<b>Segregation:</b>	Non relevant
<b>Boiling point:</b>	Non relevant
<b>Flash point:</b>	Non relevant
<b>Inflammability:</b>	No
<b>Explosive properties:</b>	No
<b>Combustive properties:</b>	No
<b>Solubility solvent:</b>	No
<b>Partition coefficient n-octanol/water:</b>	Non relevant
<b>Viscosity:</b>	Non relevant
<b>Hydrosolubility:</b>	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

Yes, during first heating of the product

### 10.2. Chemical stability

Chemically stable refractory product

### 10.3. Possibility of hazardous reactions

No hazards to our knowledge

### 10.4. Conditions to avoid

No hazards to our knowledge

### 10.5. Incompatible materials

No hazards to our knowledge

### 10.6. Hazardous decomposition products

None

## SECTION 11: Toxicological information

### 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]

## **SECTION 12: Ecological information**

### **12.0. General Information:**

#### **12.1. Toxicity**

##### **12.1.1. Air:**

Non relevant

##### **12.1.2. Water:**

Unknown at that date

##### **12.1.3. Soil :**

Non relevant

##### **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 statuary 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**

R 5 Recycling/reclamation of other inorganic materials.

##### **13.1.3. PROPERTIES OF WASTE WHICH RENDER IT HAZARDOUS**

Non relevant

#### **13.2. POTENTIAL DANGER FROM THE WASTE:**

Unknown at that date

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)

**15.3.1. Diseases caused by the following chemical agents:**

Non relevant

**15.3.2. Diseases caused by the following chemical agents:**

**- - - .201. Skin diseases and skin cancers caused by:**

Non relevant

**- - - .301. Diseases caused by the inhalation of substances and agents not included under other headings**

**- - - .301. Diseases of the respiratory system and cancers**

301.31 Pneumoconioses caused by dusts of silicates

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

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

**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):

WGK 1: slightly hazardous to water (self-classification)

**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.**

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

**15.5.- (e) list of carcinogens, mutagens and reproductive toxins SZW (Dutch Regulation)**

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

**15.5.- (f) The General Water Assessment methodology (ABM) - Dutch Regulation**

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

**15.5.- (g) The Dutch Emissions Directive (NeR) - Dutch Regulation**

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

## **SECTION 16: Other information**

**16.0. Additionnal safety information:**

Non relevant

**16.1 GHS/CLP Pictograms**

**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:**

**16.8. 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 :**

<b>Modifier</b>	JP Targe	Modification Date : 28/02/2012
-----------------	----------	--------------------------------

**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 CChemical 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 - ΕΛΛΑΣΑ, Αθήνα Αθηνών:**

Νοσοκομείο Παιδιών "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 Antiveneni, 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 Clínica, Servicio de Urgencias, Hospital Clínic 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 Tokikológiai 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 Urgenta 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 Crescencio, 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)



# SAFETY DATA SHEET

## CALDE™ PATCH SC 88

Version : 11  
MAE80026

449-99-99 или 122 (мобильный телефон) - Сайт:  
<http://www.mchc.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  
Karlovych, Na Bojišti 1, 128 00 Praha 2 -  
Nouzové telefonní číslo: +42 2  
~~2101 0202 5000 +42 2 2101 5102 Fax: +42 2 2101 4570~~

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