SAFETY DATA SHEET CALDE® TROWEL HF 36 U

Vers MAN

The following Safety Data Sheet has been created according to the Regulation (EC) No 1272/2008 [CLP/GHS], the Regulation (EU) No 45 and the Commission Regulation (EU) 2015/830 (28th of May 2015) on compilation of e-SDS.

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

1.1. Product identifier

CALDE® TROWEL HF 36 U

1.1.1. Modification of Safety

Data Sheet

Creation Date 08/06/2016 (DD/MM/YY)

Revision Date: 16/06/2020

1.1.2. SDS (Safety Data Sheet) status:

Revision

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

1.2.1. Relevant identified uses:

Usages of the product according to the ECHA (European CHemical Agency) - Guidance R.12 Use descriptor system - draft version 2.0 SU10; 13+NACE C23.2+PC 10+PROC 1; 2; 3; 4; 5; 8a; 9; 13; 14; 19; 21; 22; 23; 24; 26+ERC 2; 3; 5+AC 12-1; 12-2

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:

None

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

1.3.1. Supplier:

EUROPEAN UNION

Calderys

43, quai de Grenelle F-75015 Paris - France Phone: +33 (0)1 71 76 98 82

1.3.5. E-mail:

https://customernet.calderys.com

For any precision about the content of this MSDS, please refer to the point 1.3.6.

1.3.6. National contact's name:

SDS.information@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)

See enclosed annex for Emergency telephone

1.5. Opening hours (if not 24/24 h):

Non relevant.

SECTION 2: Hazards identification

2.1 Classification of the substance or the mixture:

2.1.0. Substances linked to the Classification of the product Tetrasodium ethylenediaminetetra acetate - (CAS Nr. 64-02-8)

2.1.1. Classification according to Regulation:

(EC) No 1272/2008 [CLP/GHS]

Eye Irrit. 2 - Serious eye damage / Eye irritation, hazard category 2; H319: Causes serious eye irritation.

2.1.3. Additional information:

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

2.2. Label elements:

2.2.1.2. Signal word:

Warning

2.2.2.1. Symbol(s) in black/white or colour according to the Regulation:

(EC) No 1272/2008 [CLP/GHS] GHS07: Exclamation mark



2.2.8. Labelling according to the Regulation:

(EC) No 1272/2008 [CLP/GHS]

Eye Irrit. 2; H319

2.2.9. GHS, Precautionary statement phrases (P)

2.2.9.1. GHS, Precautionary statements — Prevention

P280: Wear protective gloves, protective clothing, eye protection and a face protection.

2.2.9.2. GHS, Precautionary statements — Response

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Coi rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

2.2.9.3. GHS, Precautionary statements — Storage

Non relevant

2.2.9.4. GHS, Precautionary statements — Disposal

P501: Dispose of contents/containers in accordance with local regulation

2.3. Other hazards:

Unknown at that date.

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

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 (VDI 2263):

No.

SECTION 3: Composition / Information on ingredients

3.1. Substance:

3.2. Mixture:

Data linked to the pure substance or its reglementary concentration

3.2.1. Non hazardous components

Component	CAS N° / EC N° V		Weight %
Chamotte - Nr. REACH. 01-2119527779-22	CAS : Einecs :	92704-41-1 296-473-8	>=50 <100
Silicic acid, sodium salt - MR > 3.2 - Nr. REACH. 01-2119448725-31	CAS : Einecs :	1344-09-8 215-687-4	>=10 <20
Kaolinite - REACH: Substance exempted in accordance with Annex V.7	CAS : Einecs :	1318-74-7 215-286-4	>=10 <25

3.2.2. Hazardous components

Component	CAS N° / EC N°		Weight %
Tetrasodium ethylenediaminetetra acetate - Nr. REACH. 01-2119486762-27	CAS:	64-02-8	>=1 <2.5
Acute Tox. 4; H302- Acute Tox. 4; H332 - Skin Irrit.2; H315 - Eye Dam.1; H318 - STOT RE2; H373	Einecs :	200-573-9	>=1 <2.5

3.2.3. Additionnal safety information:

Crystalline Silica is not an ingredient of the product although it may be present as an impurity of the raw materials at < 1% (by weight). A European Binding OEL (Occupational Exposure Limit) for respirable crystalline silica dust is set at 0.1 mg/m3 in the Directive (EU) 2017 measured as an 8-hour TWA (Time Weighted Average).

SECTION 4: First aid measures

4.1. Description of first aid measures

4.1.1. Eves:

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

If eve 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:

Due to the physical form of the product, ingestion is considered an unlikely route of entry.

If swallowed, rinse mouth with water (only if the person is conscious).

If swallowed, drink copious amount of water (at least 0,5 liter), provided fresh air and seek medical advice immediately.

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 ans delayed.

Causes eye irritation.

SECTION 5: Fire-fighting measures

5.0. General Information:

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

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

In standard storage conditions, non-combustible, non-explosive and non-flammable.

Irritating to eyes.

Causes serious eye irritation.

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

Avoid breathing vapour and contact with skin and eyes. Wear recommended personal protective equipment.

6.1.2. For emergency responders

Avoid breathing vapour and contact with skin and eyes. Wear recommended personal protective equipment.

6.2. Environmental precautions

Prevent access to water table, running or stagnant water, or drains.

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;

Neutralize spills with absorbent materials.

6.3.2. - (b) decontamination techniques;

Non relevant.

6.3.2. - (c) adsorbent materials;

Sand, diatomite earth, saw dust, vermiculite.

6.3.2. - (d) cleaning techniques;

Remove spilt material with shovel.

Sweep spilled substance; eliminate waste water in accordance with regulation

6.3.2. - (e) vacuuming techniques;

Remove by vacuum cleaner or mechanical means.

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

Collect the spillage in closable, corrosion resistant, suitable disposal containers.

6.3.3. Other information relating to spills 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:

It is recommended to arrange all work procedures in such a way that the following points are excluded: Dust formation - Dust deposits - Inhalation of dusts / particles.

7.1.1.- (c) Measures to protect environment:

Prevent access to water table, running or stagnant water, or drains.

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:

Stacking height: up to 2 pallets maximum.

7.2.2. Recommended packing:

Metal drums with plastic liner or plastic drums. Plastic shrink or cling film.

Wooden pallet with shrink film.
Always keep the main pallet label

7.2.3. Requirements for storage rooms and vessels:

Store away from direct source of heat to avoid product damage.

Avoid freezing conditions.

o not store outside.

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

7.2.4. Storage class (national):

Unknown at that date.

7.2.5. Further information on storage conditions:

Always keep in the original packaging.

SECTION 8: Exposure controls/personal protection

8.0. General Information:

Technical measures and the application of appropriate working methods take precedence over the use of personal protective equipment.

8.1. Control parameters

Substance	CAS Nº / EC Nº	•	L.T.E - 8 hr TWA m
Chamotte - Nr. REACH. 01-2119527779-22	CAS: Einecs:	92704-41-1 296-473-8	No data
Silicic acid, sodium salt - MR > 3.2 - Nr. REACH. 01-2119448725-31	CAS: Einecs:	1344-09-8 215-687-4	No data
Kaolinite - REACH: Substance exempted in accordance with Annex V.7	CAS : Einecs :	1318-74-7 215-286-4	No data
Tetrasodium ethylenediaminetetra acetate - Nr. REACH. 01-2119486762-27 Acute Tox. 4; H302- Acute Tox. 4; H332 - Skin Irrit.2; H315 - Eye Dam.1; H318 - STOT RE2; H373	CAS: Einecs:	64-02-8 200-573-9	1.5

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 (Worldwide) GESTIS database: http://limitvalue.ifa.dguv.de/

The product is delivered as wet, so is not relevant to respirable dust.

Contains some substances without any approved Occupational Exposure values

8.2.0. DNEL (Derived no effect level)

Workers

Acronyms used in the following sentences.

DDD = DNEL Short Term exposure - Acute effect - Local

ROEX = Route of Exposure INH = Inhalation dose in mg/m3

DERM = Dermal exposition in mg/kg bodyweight

8.2.0.1. Substance:

Silicic acid, sodium salt - CAS Nr.1344-09-8 - Einecs Nr.215-687-4 - DDD; ROEX; DERM = 1,59 - INH = 5,61

8.2.1. Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

8.2.2. Individual protection measures, such as personal protective equipment

oralization proceeding incubation, buch up person

8.2.2.1. Good occupational hygiene practicesFor details about the following HS personal devices, please see the annex dedicated to. (Section .17)

8.2.2.2. Personal Protective Equipment

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)



8.2.2.2. (c) Hands:

Suitable material for gloves: Nitrile rubber (NBR) - Natural rubber (NR) - Neoprene

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.



8.2.2.2. (d) Respiratory protection

The product is delivered as wet, so is not relevant to respirable dust. Consult the local reglementation.



8.2.3. Environmental exposure controls

Prevent access to water table, running or stagnant water, or drains during installation or during washing the tools used for installation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Name of the characteristic Value

Wet mixture of aggregates and fine powders Appearance:

Color:

Odour: No particular odour

Melting point > 1600 °C Packing Density (g/cm3): Non relevant. Vapour density: Non relevant. Unable to determine.

Non relevant Segregation: **Boiling point:** Non relevant. Flash point: Non relevant.

Inflammability: **Explosive properties:** No. **Combustive properties:** No. Solubility solvent: No.

Partition coefficient n-Non relevant. octanol/water: Viscosity: Non relevant. **Hydrosolubility:** Lower than 20%

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

Unknown at that date.

No hazards to our knowledge

10.4. Conditions to avoid

No hazards to our knowledge

Chemically stable refractory product

10.5. Incompatible materials

No hazards to our knowledge Chemically stable refractory product

10.6. Hazardous decomposition products

None

SECTION 11: Toxicological information

Substance CAS N° / EC N°

Tetrasodium ethylenediaminetetra acetate - Nr. REACH. 01-2119486762-27 CAS: 64-02-8 Acute Tox. 4; H302- Acute Tox. 4; H332 - Skin Irrit.2; H315 - Eye Dam.1; H318 -Einecs: 200-573-9 STOT RE2; H373

11.1. Information on toxicological effects.

11.1.1. Substances.

Non relevant.

11.1.2. Mixtures.

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

11.1.2.1. - (a) acute toxicity:

Non relevant. 11.1.2.1. - (b) skin corrosion/irritation:

Non relevant.

11.1.2.1. - (c) serious eye damage/irritation:

Irritating to eyes.

Eye irritation, hazard category 2

11.1.2.1. - (d) respiratory or skin sensitisation:

Non relevant.

11.1.2.1. - (e) germ cell mutagenicity:

Non relevant.

11.1.2.1. - (f) carcinogenicity:

11.1.2.1. - (g) reproductive toxicity:

Non relevant.

Non relevant.

11.1.2.1. - (h) STOT-single exposure:

Non relevant.

11.1.2.1. - (i) STOT - repeated exposure: Non relevant.

11.1.2.1. - (j) aspiration hazard:

Non relevant.

11.1.2.2.1. GHS: Germ cell mutagenicity - Carcinogenicity - Reproductive toxicity

Non relevant.

11.1.2.3. Other health effects of the mixture.

The mixture wasn't tested as whole, read the information given for the substances used.

SECTION 12: Ecological information

12.1. Toxicity

The following points are theoretical conclusions:

12.1.1. Air:

Non relevant.

12.1.2. Water:

Unknown at that date.

Prevent access to water table, running or stagnant water, or drains.

12.1.2.0 Toxicity linked to fishes, Daphnia, Other aquatic invertebrates, Bacteria, Algae:

Acronyms used in the following sentences.

TOF LC50 = Toxicity on fish LC50

TDOAI EC50 = Toxicity to daphnia and other aquatic invertebrates (EC50) TDOAI NOEC = Toxicity to daphnia and other aquatic invertebrates NOEC

TTA EC50 = Toxicity to algae EC50

12.1.2.1 Substance:

Silicic acid, sodium salt - CAS Nr.1344-09-8 - Einecs Nr.215-687-4 - TOF LC50 = [1108 mg/l; 96 h] - Test unknown - [Fish: Danio Rerio] / EC50 = [1700 mg/l; 48 h] - Test unknown - [Water flea: Daphnia magna] / TDOAI NOEC = [3480 mg/l; 18 h] - Test unknown - [Bacteria Pseudomonas putida] / TTA EC50 = [207 mg/l; 72 h] - Test unknown - [Green Algae: Scenedesmus subspicatus]

12.1.2.2 PNEC: Predicted No-Effect Concentration

Acronyms used in the following sentences.

PNEC FW = PNEC Freshwater PNEC SW = PNEC Seawater

PNEC WIR = PNEC Water intermittent release

PNEC Sd = PNEC Sediment PNEC So = PNEC Soil NR = Non relevant

12.1.2.3. Substance:

Silicic acid, sodium salt - CAS Nr.1344-09-8 - Einecs Nr.215-687-4 - PNEC FW: 7,5 mg / I - PNEC SW: 1 mg / I - PNEC WIR: 7,5 mg / I - PNEC WIR: 7,5 mg / I - PNEC SW: 1 mg / I - PNEC WIR: 7,5 mg / I - PNEC W

NR - PNEC So: NR

12.1.3. Soil:

Non relevant. 12.1.4. Flora:

12.1.5. Fauna:

Unknown at that date.

Unknown at that date.

12.1.6. Bee:

Non relevant.

12.2. Persistence and degradability

Non relevant.

12.3. Bioaccumulative potential12.4. Mobility in soil

Non relevant.

Non relevant.

12.5. Results of PBT and vPvB assessment

I**ssessment** Non relevant.

12.6. Other adverse effects

Unknown at that date.

However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment;

SECTION 13: Disposal considerations

13.0. DIRECTIVE 2008/98/EC ON INDUSTRIAL WASTE. - Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal - UNEP

13.1. WASTE TREATMENT METHODS

Please consult local regulations and statuary European Union provisions

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

Dispose of substance in suitable containers in accordance with local, regional, national or international regulation. Do not dispose in water Do not flush into drains or surface water

13.1.1. DISPOSAL OPERATIONS

D 9 Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded t means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)

13.1.2. RECOVERY OPERATIONS

R 5 Recycling/reclamation of other inorganic materials.

13.1.3. PROPERTIES OF WASTE WHICH RENDER IT HAZARDOUS

H 4 (Irritant): non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or muc membrane, can cause inflammation.

13.2. POTENTIAL DANGER FROM THE WASTE:

Unknown at that date.

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

13.3. EUROPEAN LIST OF HAZARDOUS WASTES (2000/532/EC)

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 . 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.

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:

Unknown at that date.

SECTION 15: Regulatory information

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

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

The classification of this product has been established according to this regulation.

15.1.3. Regulation 1272/2008/EC on the GHS/CLP, including the EU 2017/776 (10th ATP)

The classification of this product has been established according to this regulation. **15.1.4. Regulation 2015/830/EC amending Regulation (EC) No 453/2010**

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.

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

No Chemical Safety Assessment has been completed for this product This product doesn't require a 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 relevant (notified under document number C(2003) 3297)

Non relevant.

15.5. Other national relevant Safety, health and environmental regulations/legislation specific for the substance or mixture:

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 18.04.2017):

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

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

Non relevant.

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

Non relevant.

15.5.- (e) Netherlands

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

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

Non relevant.

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

Non relevant.

15.5.- (h) Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal - UNEP

This Convention is applied in the points 13.1.1, 13.1.2. and 13.1.3.

SECTION 16: Other information

16.0. Additionnal safety information:

As announced in the Sub-section 2.1.3. find below the full text of the Hazard statement phrases (H - EUH) and Precautionary statement | (P) from GHS phrases indicated.

16.1. GHS Pictograms

16.1.1. Symbol(s) in black/white or colour according to the Regulation:

(EC) No 1272/2008 [CLP/GHS]



16.1.2. Labelling according to the Regulation:

(EC) No 1272/2008 [CLP/GHS]

Eye Irrit. 2; H319

16.1.3. Classification according to Regulation:

(EC) No 1272/2008 [CLP/GHS]

Eye Irrit. 2 - Serious eye damage / Eye irritation, hazard category 2; H319: Causes serious eye irritation.

16.1.4. Signal word:

Narning

16.1.5. GHS Hazard statement phrases (H) (linked to the product)

H319: Causes serious eye irritation.

16.1.6. GHS Hazard statement phrases (H, EUH), linked to the product's retained substances, even if not relevant for the final classification:

H302: Harmful if swallowed. H315: Causes skin irritation.

H318: Causes serious eve damage.

H373: May cause damage to lungs through prolonged or repeated exposure if inhaled.

16.2. GHS Precautionary statement phrases (P)

P280: Wear protective gloves, protective clothing, eye protection and a face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Col

rinsina.

P337+P313: If eye irritation persists: Get medical advice/attention.

P501: Dispose of contents/containers in accordance with local regulation

16.6. Other informations:

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

The limits shown are from annex VI of the GHS as of 07/10/2012

16.7. Local contact for your country:

SDS.information@calderys.com

SDS status :

Modifier Modification Date : 16/06/2020

Acronyms and abbreviations used:

AAA = DNEL Long Term exposure - Chronic effect - Local

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

AOEL: Acceptable Operator Exposure Level

AOX: Adsorbable Organic Halogen

BBB = DNEL Long Term exposure - Acute effect - Local

BCF: Bioconcentration factor

BOD: Biochemical Oxygen Demand (BOD)

CAS: Chemical Abstracts Service

CCC = DNEL Short Term exposure - Chronic effect - Local CLP : Classification, Labelling and Packaging of chemicals

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction COD: Chemical Oxygen Demand.

CSA: Chemical Safety Assessment CSR: Chemical Safety Report

DDD = DNEL Short Term exposure - Acute effect - Local

DNEL : Derived No-Effect Level

EC: Ecotoxicity

EC50: Half maximal effective concentration

ECHA: European CHemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substance.

ES: Exposure Scenario

eSDS: extended Safety Data Sheet

GefStoffV: German regulation on hazardous substances.

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

IATA: International Air Transport Association.

 ${\tt IATA-DGR:\ Dangerous\ Goods\ Regulation\ by\ the\ International\ Air\ Transport\ Association}$

ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime code for Dangerous Goods.

 ${\sf JAP\text{-}ISHA\text{-}C.O.Nr.} = {\sf Japanese \ Industrial \ Safety \ and \ Health \ Act - Cabinet \ Order \ Nr.}$

JAP-PDSA-C.O.Nr. = Japanese Poisonous and Deleterious Substances Control Act - Cabinet Order Nr.

 ${\sf JAP-PRTR-C.O.Nr.} = {\sf Japanese} \ {\sf Pollutant} \ {\sf Release} \ {\sf and} \ {\sf Transfer} \ {\sf Register} \ - \ {\sf Cabinet} \ {\sf Order} \ {\sf Nr.}$

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

LOAEL: Lowest observed adverse effect level MFSU: Manufacture, Formulation, Supply and Use

NEC: No effect concentration

NOEC: No Observed Effect Concentration

N.O.S.: Not Otherwise Specified

NLP: No-Longer Polymers

OECD: Organisation for Economic Co-operation and Development

PAH: Polycyclic Aromatic Hydrocarbon. PBT: Persistent, Bioaccumulative and Toxic PEC: Predicted Environmental Concentration PNEC: Predicted No-Effect Concentration

PNEC Co = PNEC Coral PNEC FW = PNEC Freshwater

PNEC Sd = PNEC Sediment PNEC So = PNEC Soil

PNEC SW = PNEC Seawater

PNEC WIR = PNEC Water intermittent release

POP: Persistent Organic Pollutant

CSFF: Crystalline Silica Fine Fraction (according to the standard EN 481)

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

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

RIP: REACH Implementation Project RMM: Risk Management Measure ROEX = Route of Exposure SVHC: Substance of Very High Concern

TDOAI EC50 = Toxicity to daphnia and other aquatic invertebrates (EC50)

TDOAI NOEC = Toxicity to daphnia and other aquatic invertebrates NOEC

TGD: Technical Guidance Document ThOD: Theoretical Oxygen Demand TOF LC50 = Toxicity on fish LC50 TOF NOEC = Toxicity on fish NOEC TTA EC10 = Toxicity to algae EC10 TTA EC50 = Toxicity to algae EC50 TTA NOEC = Toxicity to algae NOEC

TTB EC0 = Toxicity to Bacteria (EC0)

TTB NOEC = Toxicity to Bacteria NOEC

UVCB: Substances of Unknown Variable composition, complex reaction products or Biological materials

vPvB: very Persistent very Bioaccumulative

17. Annexes:

Attached annex: Medical toxicology units Attached annex: HS Devices - Personal protection

Annex: MEDICAL TOXICOLOGY UNITS

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

Belaiaue:

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

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

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 Karlovy Na Bojišti 1, 128 00 Praha 2 - Nouzové telefonní číslo: +42 2 2491 9293 nebo +42 2 2491 5402 - Fax: +42 2 2491 4570

Denmark:

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

España:

Servicio Nacional de Toxicologia, 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

Finland - SUOMI

Myrkytystietokeskuksen P.O.B 790 (Tukholmankatu 17), SF - 00029 HUS, Helsinki -

Puhelin: +358 9 471 977, Fax: +358 9 4717 47 02

France:

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

Germany - DEUTSCHLAND

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

Greece - ΕΛΛΆΔΑ, Αθήνα Αθηνών:

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

Hungary - Magyarország

Egészségügyi Toxikológiai Tájékoztató Szolgálat - 1097 Budapest, Nagyvárad tér 2.

Telefon: +36 80 20 11 99, Fax: +36 1 476 1138

India:

Poison Information Centre National Institute of Occupational Health Meghani Nagar, Ahmedabad - India 320016 - Tel: +91-272-867351 - Fax: +91-272-86630

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

Norway - NORGE

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

Osterreich: Vergiftungsinformationszentrale

Stubenring 6, 1010 Wien - Notruf: +43 1 406 43 43 - Informationen & Anfragen: + 43 1 406 68 98 11

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

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

RSA - South-Africa

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

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 медикобиологического агентства, 3 Большая Сухаревская площадь, Блок 7, Москва 129090 - Телефон экстренной связи: +7 495 628 16 87 (только на русском)

Slovenská republika:

Národné toxikologické informačné centrum SR:

24 – hodinová konzultačná služba pri akútnych intoxikáciách: +421 2 5477 4166 Univerzitná Nemocnica Bratislava, Limbová 5, 833 05 Bratislava - e-mail: ntic@ntic.sk Tel: +421 2 5465 2307, Fax.: +421 2 5477 4605, Mobil: +421 911 166 066,

Sweden - SVERIGE

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

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

United Kingdom:

The UK National Poisons Emergency number is 0870 600 6266

ROUTE OF EXPOSURE					
EYES	SKIN	HANDS	INHALATION		
Glasses with lateral protection	Clothes	Gloves	Mask		
166 rev, \$ 4KN2	340 rev	388 - 3111	FFP3		
DEDICATED USAGE: Non lab	elled, cast, hydraul	ic bonded products	s, cold conditions.		
Glasses with lateral protection	Clothes	Gloves	Mask		
166 rev, \$ 4KN2	ISO6942	407 - 2122	FFP3		
DEDICATED USAGE: Non lab	elled, cast, hydrau	lic bonded product	s, hot conditions.		
Face shield	Clothes	Gloves	Mask		
166 rev, F 4KN2	340 rev	388 - 3111	FFP3		
DEDICATED USAGE: Non label	led, gunned, hydra	ulic bonded produc	ts, cold conditions.		
Face shield	Clothes	Gloves	Mask		
166 rev, F 4KN2	ISO6942	407 - 2122	FFP3		
DEDICATED USAGE: Non labe					
Face shield	Clothes	Gloves	Mask		
166 rev, F 4KN2	340 rev	388 - 3111	FFP3		
DEDICATED USAGE: Non lab					
Face shield	Clothes	Gloves	Mask		
166 rev, F 4KN2	ISO6942	407 - 2122	FFP3		
		elled chemical bonded gunning mixes, hot installation			
Glasses with lateral protection		Gloves	Mask		
166 rev, S 4KN2	340 rev	388 - 3111	FFP3		
DEDICATED USAGE: La					
Glasses with lateral protection		Gloves	Mask		
166 rev, \$ 4KN2	ISO6942	407 - 2122	EN 141:2000		
DEDICATED USAGE: La					
Face shield	Clothes	Gloves	Mask		
166 rev, F 4KN2	ISO6529-463	3121 - 1994	Local rules		
		E: Phosphate bonded products			
Face shield	Clothes	Gloves	Mask		
166 rev, F 4KN2	ISO17491-3	3121 - 1994	Local rules		
		cate bonded produc			
Glasses with lateral protection	Clothes	Gloves	Mask		
166 rev, S 4KN2	340 rev	388 - 3111	EN 141:2000		
DEDICATED USAGE: Labelled dry mixes					
Glasses with lateral protection		Gloves	Mask		
166 rev, S 4KN2	340 rev	388 - 3111	FFP3		
	D USAGE: Non la		1113		
Glasses with lateral protection		Gloves	Mask		
166 rev, \$ 4KN2	340 rev	388 - 3111	Local rules		
DEDICATED USAG					
Glasses with lateral protection	Clothes	Gloves	Mask		
166 rev, \$ 4KN2	340 rev	388 - 3111	FFP3		
DEDICATED USAG					
Glasses with lateral protection	Clothes	Gloves	Mask		
166 rev, \$ 4KN2	ISO6942	407 - 2122	EN 141:2000		
DEDICATED USA					
Glasses with lateral protection	Clothes	Gloves	Mask		
CIGOSES WILL IGIEIGI DIVIEULIULI		GIOVES	iviasn		
166 rev, \$ 4KN2	340 rev	388 - 3111	Local rules		