

Rusztikus barna HU
Rustic brown glaze HU

Version:	3.1	Revision Date:	2018.12.20	Previous version:	3.0	Creation Date:	2006.08.17	1/24
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Trade name	:	Rusztikus barna HU Rusztic brown glaze HU
Material number	:	291102213

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

Use of the Substance/Mixture	:	Manufacture of ceramic coatings and decorating preparations suited for firing, for glass and ceramics.
Contraindicated use	:	None known.

1.3. Details of the supplier of the safety data sheet

	DISTRIBUTOR	PRODUCER
COMPANY	: INTERKERÁM KFT. 6000 KECSKEMÉT PARASZTFŐISKOLA 12.	INTERKERÁM KFT. 6000 KECSKEMÉT PARASZTFŐISKOLA 12.
PHONE	: +36 76 481 440	+36 76 481 440
E-MAIL ADDRESS	: INFO@INTERKERAM.HU	INFO@INTERKERAM.HU
RESPONSIBLE/ISSUING PERSON		

1.4. EMERGENCY TELEPHONE NUMBER

Hungary: Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ) az Országos Kémiai Biztonsági Intézet (OKBI) osztálya: 1096 Budapest, Nagyvárad tér 2.

ETTSZ – Emergency phone number	:	+36 80 201 199 (0-24 óra, free, hungarian)
CHEMTREC hungarian phone number	:	+36 1 808 8425 (hungarian)
CHEMTREC international phone number	:	+1 703 527 3887 (free, call collect)

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****2.1.1. Classification (REGULATION (EC) No 1272/2008)**

Acute Tox. 4 - Oral	H302
Acute Tox. 4 - Inhalation	H332
Carc. 2	H351
Rep. Tox. 1A	H360Df
STOT RE 1	H372
Aquatic Chronic 1	H410

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2.1.2. Other information

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements
Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms:


GHS07

Signal word:


GHS08



GHS09

Danger

Hazard statements

:

 H302
 H332
 H351
 H360Df

 H372

 H410

 Harmful if swallowed
 Harmful if inhaled
 Suspected of causing cancer.
 May damage the unborn child.
 Suspected of damaging fertility.
 Causes damage to organs through prolonged or repeated exposure.
 Very toxic to aquatic life with long lasting effects.

Precautionary statements

 : **Prevention:**

 P201
 P260

 P273
 P280

 Obtain special instructions before use.
 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 Avoid release to the environment.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P340 + P312

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

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2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Substances

CHEMICAL NAME	CAS No. / EU No. / REACH No.	CLASSIFICATION (REGULATION (EC) No 1272/2008)	MASS PERCENT % [M/M]
frits, chemicals (contains lead)	65997-18-4 266-047-6	Acute Tox. 4 - Oral H302 Acute Tox. 4 - Inhalation H332 Carc. 2 H351 Rep. Tox. 1A H360Df STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	>= 50 - <= 100

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

4.1.1.

- If inhaled : Consult a physician after significant exposure.
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.

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Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.1.2.

- a) Consult a physician.
Show this safety data sheet to the doctor in attendance.
- b) Move out of dangerous area.
Do not leave the victim unattended.
- c) In case of skin contact: Take off contaminated clothing and shoes immediately.
- d) Tightly fitting safety goggles
Polyvinyl alcohol or nitrile- butyl-rubber gloves
Dust impervious protective suit
Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.
Wear suitable protective equipment.

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

- Symptoms : None known.
- Risks : Harmful if swallowed or if inhaled
Suspected of causing cancer.
May damage the unborn child. Suspected of damaging fertility.
Causes damage to organs through prolonged or repeated exposure.

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

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet

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5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products : No hazardous combustion products are known
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3. Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

- a) The wearing of protective : Personal protective equipment must be used.
- b) General : Provision of sufficient ventilation.
Avoid dust formation.
- c) Emergency procedures : Evacuate the danger area.

6.1.2. For emergency responders

- General : No special suggestions

6.2. Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

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6.3.1. Containment techniques

- a) Keep in suitable, closed containers for disposal.
- b) Keep in suitable, closed containers for disposal.

6.3.2. Clean-up procedures

- a) Neutralisation techniques : None known.
- b) Decontamination techniques : Pick up and arrange disposal without creating dust.
- c) Adsorbent materials : None known.
- d) Cleaning techniques : Pick up and arrange disposal without creating dust.
- e) Vacuuming techniques : None known.
- f) Equipment : General cleaning tools

6.3.3. Any other information related to contamination and release to the environment

Further information : None known.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling****7.1.1.**

- a) Advice on protection against fire and explosion : Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed.
- b) Handling incompatible materials/ mixtures : N/A
- c) Avoiding new risks : Avoid formation of respirable particles.
Avoid exposure - obtain special instructions before use.
For personal protection see section 8.
Do not breathe vapours/dust.

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Avoid contact with skin, eyes and clothing.

d) Reduce the release of the substance or mixture to the environment

- : Consult the technical guidelines for the use of this substance/mixture.
Provide appropriate exhaust ventilation at places where dust is formed.
Avoid release to the environment.

7.1.2.

- a) Smoking, eating and drinking should be prohibited in the application area.
When using do not eat or drink.
When using do not smoke.
- b) Dispose of rinse water in accordance with local and national regulations.
Avoid release to the environment.
- c) Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Prevent unauthorized access.
Keep container tightly closed in a dry and well-ventilated place.
Electrical installations /working materials must comply with the technological safety standards.
- Advice on common storage : No materials to be especially mentioned.

7.3. Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****8.1.1. Occupational Exposure Limits**

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Occupational Exposure Limits

COMPONENTS	CAS No.	VALUE TYPE (FORM OF EXPOSURE)	CONTROL PARAMETERS	BASIS	FURTHER INFORMATION
frits, chemicals (contains lead)	65997-18-4	STEL	0.6 mg/m ³ (lead)	EU OEL	
frits, chemicals (contains lead)	65997-18-4	TWA	0.15 mg/m ³ (lead)	98/24/EC I	Binding

Biological occupational exposure limits

COMPONENTS	CAS No.	CONTROL PARAMETERS	FURTHER INFORMATION
frits, chemicals (contains lead)	65997-18-4	0.7 mg/l (lead) (blood)	98/24/EC II

8.1.2. Monitoring procedures

See Section 8.1.1.

8.1.3. Occupational exposure limit values and/or biological limit values of air contaminants

SUBSTANCE	CAS NO.	CONTROL PARAMETERS	SAMPLING TIME	BASIS
frits, chemicals (contain lead)	65997-18-4	During normal use, air contaminants are not formed.	–	–

8.1.4. A releváns DNEL/PNEC és egyéb küszöbértékek
8.1.4.1. emberi egészségre vonatkozó határértékek

SUBSTANCE	CAS NO.	END USE	EXPOSURE ROUTES	POTENTIAL HEALTH EFFECT	VALUE	ENDPOINT
frits, chemicals (contain lead)	65997-18-4	Worker (adult)	Systematic general	Nervous system effect	40 µg/dL Toxicity value for lead-oxide component, Not the frit itself	DNEL
frits, chemicals (contain lead)	65997-18-4	Worker (women of child-bearing capacity)	Systematic general	Nervous system effect (foetal effects)	10 µg/dL Toxicity value for lead-oxide component, Not the frit itself	DNEL

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frits, chemicals (contain lead)	65997-18-4	General population (adult)	Systematic general	Nervous system effect	20 µg/dL Toxicity value for lead-oxide component, Not the frit itself	DNEL
frits, chemicals (contain lead)	65997-18-4	General population women of child-bearing capacity	Systematic general	Nervous system effect	10 µg/dL Toxicity value for lead-oxide component, Not the frit itself	DNEL
frits, chemicals (contain lead)	65997-18-4	Population Based Child Limit	Systematic general	Nervous system effects	5 µg/dL Toxicity value for lead-oxide component, Not the frit itself	DNEL
frits, chemicals (contain lead)	65997-18-4	General population (women of child-bearing capacity)	Systematic general	Nervous system effects	10 µg/dL Toxicity value for lead-oxide component, Not the frit itself	DNEL

8.1.4.2. Predicted No-Effect Concentration (PNEC)

SUBSTANCE	CAS NO.	ENVIRONMENTAL MEDIUM	VALUE	END POINT
frits, chemicals (contain lead)	65997-18-4	Freshwater	6.5 µg/l Toxicity value for lead-oxide component, Not the frit itself	PNEC
frits, chemicals (contain lead)	65997-18-4	Marine water	3.4 µg/l Toxicity value for lead-oxide component, Not the frit itself	PNEC
frits, chemicals (contain lead)	65997-18-4	Sewage treatment	100 µg/l Toxicity value for lead-oxide component, Not the frit itself	PNEC
frits, chemicals (contain lead)	65997-18-4	Sediment (freshwater)	174 mg/kg dry mass Toxicity value for lead-oxide component, Not the frit itself	PNEC
frits, chemicals (contain lead)	65997-18-4	Sediment (marine water)	164 mg/kg dry mass Toxicity value for lead-oxide component, Not the frit itself	PNEC
frits, chemicals (contain lead)	65997-18-4	Soil	147 mg/kg dry mass Toxicity value for lead-oxide component, Not the frit itself	PNEC
frits, chemicals (contain lead)	65997-18-4	Oral	10.9 mg/kg meal Toxicity value for lead-oxide component, Not the frit itself	PNEC

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8.1.5. The limitations of the specific control banding recommendation

No data available.

8.2. Exposure controls**8.2.1. Engineering measures**

No data available

8.2.2. Personal protective equipment**8.2.2.1.**

See Section 5.

8.2.2.2. Különböző területekre alkalmas védőeszközök

- a) Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- b) Skin and body protection : Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hand protection : Polyvinyl alcohol or nitrile- butyl-rubber gloves
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Before removing gloves clean them with soap and water.
- c) Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
No personal respiratory protective equipment normally required.
Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.
- d) Thermal hazards : No thermal hazards
- e) Protective measures : Wear suitable protective equipment.
When using do not eat, drink or smoke.

8.2.3. Environmental exposure controls

Avoid release to the environment.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

- a) Appearance : powder
green
- b) Odour : odourless
- c) Odour Threshold : Not applicable
- d) pH : 6-8
- e) Melting point/range : > 500 °C
- f) Boiling point/boiling range : > 1.000 °C
- g) Flash point : Not applicable
- h) Evaporation rate : Not applicable
- i) Flammability (solid, gas) : No data available.
- j) Burning rate : No data available.
- k) Vapour pressure : No data available.
- l) Relative vapour density : No data available.
- m) Relative density : No data available.
- n) Solubility(ies) :
Water solubility : No data available.
Solubility in other solvents : insoluble
- o) Partition coefficient: n-octanol/
water : Not applicable
- p) Auto-ignition temperature : No data available
- q) Decomposition temperature : No data available
- r) Viscosity :
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
- s) Explosive properties : No data available
- t) Oxidising properties : No data available

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9.2. Other information

Volumetric weight : 1.500 - 3.000 kg/m³

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Stable under recommended storage conditions.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.
No hazards to be specially mentioned.

10.4. Conditions to avoid

Conditions to avoid : No data available

10.5. Incompatible materials

Materials to avoid : No data available

10.6. Hazardous decomposition products

Hazardous decomposition products : Stable under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION*11.1. Information on toxicological effects**

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a) Acute oral toxicity

Product	:	Harmful if swallowed
Acute toxicity value	:	>530,05 mg/kg
Method	:	Interpolation
Remarks	:	No data available

frits, chemicals (contains lead) (65997-18-4)

Species	:	Rat
LD50	:	> 2000 mg/kg bw/day
Assessment	:	The component/mixture is moderately toxic after single ingestion.
Remarks	:	Toxicity value for lead-oxide component, Not the frit itself

Acute inhalation toxicity

Product	:	Harmful if inhaled
Acute toxicity value	:	>1,59 mg/l
Exposure time	:	4 h
Test atmosphere	:	dust/mist
Method	:	Interpolation
Remarks	:	No data available

frits, chemicals (contains lead) (65997-18-4)

LC50	:	> 5 mg/l
Method	:	OECD Test Guideline 403
Remarks	:	Toxicity value for lead-oxide component, Not the frit itself
Assessment	:	The ingredient / mixture is moderately toxic after short-term inhalation.

Acute dermal toxicity

Product	:	No data available
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frits, chemicals (contains lead) (65997-18-4)

LD50	:	> 2000 mg/kg bw/day
Remarks	:	Toxicity value for lead-oxide component, Not the frit itself

b) Skin corrosion/irritation

Product	:	Not classified based on available information.
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frits, chemicals (contains lead) (65997-18-4)

Result	:	No skin irritation
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c) Serious eye damage/eye irritation

Product	:	Not classified based on available information.
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frits, chemicals (contains lead) (65997-18-4)

Method : Does not cause eyesensitization.

d) Respiratory or skin sensitisation

 Product : Skin sensitisation: Not classified based on available information.
 Respiratory sensitisation: Not classified based on available information.

frits, chemicals (contains lead) (65997-18-4)

Assessment : Does not cause skin sensitization.

e) Germ cell mutagenicity

 Product
 In vitro genotoxicity : Not classified based on available information.
 In vivo genotoxicity : Not classified based on available information.

f) Carcinogenicity

Product : Suspected of causing cancer.

frits, chemicals (contains lead) (65997-18-4)

 Assessment : Oral
 : Suspected human carcinogen
 NOAEL : 2,7 mg/kg bw/day
 Target organ : Kidney
 Remarks : Toxicity value for lead-oxide component, Not the frit itself

g) Reproductive toxicity

 Product : Suspected of damaging fertility.
 : May damage the unborn child.

frits, chemicals (contains lead) (65997-18-4)

Remarks : No data available

h) STOT - single exposure

Product : Not classified based on available information.

frits, chemicals (contains lead) (65997-18-4)

Remarks : No data available

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i) STOT - repeated exposure Product : Causes damage to organs through prolonged or repeated exposure.

frits, chemicals (contains lead) (65997-18-4)

Remarks : No data available

j) Aspiration toxicity Product : Not classified based on available information.

frits, chemicals (contains lead) (65997-18-4)

Remarks : No data available

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Ecotoxicology Assessment : Very toxic to aquatic life with long-lasting effects
Acute aquatic toxicity

frits, chemicals (contains lead) (65997-18-4)

Toxicity to fish

Species : Fish
LC50 : 40.8 µg/l
Explosure time : 96 h

frits, chemicals (contains lead) (65997-18-4)

Toxicity to fish (chronic toxicity)

Species : Fish
NOEC : 18.9 µg/l
Explosure time : 570 day

frits, chemicals (contains lead) (65997-18-4)

Toxicity to daphnia and other aquatic invertebrate

Species : Daphnia magna Daphnia magna)
EC50 : 26.4 µg/l
Explosure time : 48 h

frits, chemicals (contains lead) (65997-18-4)

Toxicity to daphnia and other aquatic invertebrate (chronic toxicity)

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EC10 : 1.7 µg/l
Exposure time : 30 day
M-factor : 1

frits, chemicals (contains lead) (65997-18-4)

Toxicity to algae

Species	:	Algae	Algae	Plant
EC50	:	21.7 µg/l		
ErC10	:		34.1 µg/l	
EC10	:			29.5 µg/l
Exposure time	:	48 h	96 h	7 d
Remarks	:		Short-term toxicity to aquatic plant (endpoint)	Short-term toxicity to aquatic plant (endpoint)
M-factor (Acute aquatic toxicity)	:	10		

frits, chemicals (contains lead) (65997-18-4)

Toxicity to microorganisms

Species : sediment organism
NOEC : 573 µg/kg
Remarks : Short-term toxicity to aquatic organism (endpoint)

frits, chemicals (contains lead) (65997-18-4)

Toxicity to soil organism

Species	:	soil microorganism	soil invertebrate
NOEC	:	96 mg/kg	130 ng/kg
Remarks	:	Long-term terrestrial toxicity (endpoint)	Long-term terrestrial toxicity (endpoint)

frits, chemicals (contains lead) (65997-18-4)

Toxicity to plant

Species : Plants
NOEC : 57 mg/kg
Remarks : Long-term terrestrial toxicity (endpoint)

frits, chemicals (contains lead) (65997-18-4)

Sediment toxicity

Type of sediment : active sediment
NOEC : 1 mg/l
Method : Respiratory inhibition

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frits, chemicals (contains lead) (65997-18-4)

Toxicity to terrestrial organism

Species	:	Bird
NOEC	:	100 mg/kg
Remarks	:	Long-term terrestrial toxicity (endpoint)

12.2. Persistence and degradability

Product : No data available

frits, chemicals (contains lead) (65997-18-4) : No data available

12.3. Bioaccumulative potential

No data available

frits, chemicals (contains lead) (65997-18-4)

Bioakkumuláció

Bioconcentration factor (BCF)	:	1.553
Concentration	:	0.39 kg/kg dry mass
Remarks	:	BSAF- Biota Sediment Accumulation Factor. Toxicity value for lead-oxide component, Not the frit itself

12.4. Mobility in soil

No data available

frits, chemicals (contains lead) (65997-18-4)

Mobility in soil

Distribution among environmental compartments	:	adsorption/ desorption
Medium	:	soil
logKoc	:	3.8
Remarks	:	Toxicity value for lead-oxide component, Not the frit itself

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12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****a)**

Product	:	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

b)

Product	:	See Section 11.1.
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c)

Product	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company.
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d)

Product	:	No data available
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SECTION 14: TRANSPORT INFORMATION**14.1. UN number**

ADN	:	UN 3077
ADR	:	UN 3077
RID	:	UN 3077
IMDG	:	UN 3077
IATA	:	UN 3077

14.2. UN proper shipping name

ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (frits, chemicals (contains lead))
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (frits, chemicals (contains lead))
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (frits, chemicals (contains lead))
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (frits, chemicals (contains lead))
IATA	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (frits, chemicals (contains lead))

14.3. Transport hazard class(es)

ADN	:	9
ADR	:	9
RID	:	9
IMDG	:	9
IATA	:	9

14.4. Packing group

ADN	:	
Packing group	:	III
Classification Code	:	M7
Hazard Identification Number	:	90
Labels	:	9

ADR	:	
Packing group	:	III
Classification Code	:	M7
Hazard Identification Number	:	90
Labels	:	9
Tunnel Restriction Code	:	(-)

RID	:	
Packing group	:	III

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Classification Code : M7
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (cargo)

Packing instruction (cargo aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : 9

IATA (Passenger)

Packing instruction (passenger airplane) : 355
Packing instruction (LQ) : Y956
Packing group : III
Labels : 9

14.5. Environmental hazards

ADN
Environmentally hazardous : Yes
ADR
Environmentally hazardous : Yes
RID
Environmentally hazardous : Yes
IMDG
Environmentally hazardous : Yes
IATA
Environmentally hazardous : Yes

14.6. Special precautions for user

See Section 8.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type : N/A
Pollution category : N/A

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SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC : Neither banned nor restricted

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) : Neither banned nor restricted

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 ANNEX XIV LIST OF SUBSTANCES SUBJECT TO AUTHORISATION : Neither banned nor restricted

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 ANNEX XVII RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES : Neither banned nor restricted

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 : Neither banned nor restricted

REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals : Neither banned nor restricted

REGULATION (EC) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer : Neither banned nor restricted

REGULATION (EC) NO 850/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC : Neither banned nor restricted

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC : Neither banned nor restricted

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DIRECTIVE 2008/68/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 September 2008 on the inland transport of dangerous goods : Neither banned nor restricted

DIRECTIVE 2004/37/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (Sixth individual Directive within the meaning of Article 16(1) of Council Directive 89/391/EEC) : Neither banned nor restricted

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work : Neither banned nor restricted

COMMISSION DIRECTIVE 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC : Neither banned nor restricted

	Quantity 1	Quantity 2
DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC		

E1	ENVIRONMENTAL HAZARDS	100t	200 t
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15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

*SECTION 16: OTHER INFORMATION

a) This section (*) has changed.

b) Full text of other abbreviation

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

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	by Inland Waterways
CAS	: Chemical Abstracts Service Number
CHEMTREC	: Chemical Shipping Regulation & Incident Support
CLP	: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	: Származtatott hatásmentes szint
ENSZ	: UN United Nations
ETTSZ	: Egészségügyi Toxikológiai Tájékoztató Szolgálat
EU	: European Union
GHS	: Globally Harmonized System
IATA	: International Air Transport Association
IBC	: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG	: International Maritime Dangerous Goods
LD50	: Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	: International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified
NOAEL	: No Observed (Adverse) Effect Level
OKBI	: Megelőzési, Rovarirtási és Mérgező Anyagok Hivatala
PBT	: Persistent, Bioaccumulative and Toxic substance
REACH	: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	: Very Persistent and Very Bioaccumulative

c) Literature references

See Section 15.1. and REACH dossier

d) The methods of evaluating information referred

Interpolation
Calculation

e) List of relevant hazard statements (Section 3)

H302	Harmful if swallowed
H332	Harmful if inhaled
H351	Suspected of causing cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.

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f) Training appropriate for workers

General safety training

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