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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product type: Mixture

Trade name: **MANTI Ceramic Architectural High Density**

Product code: MK/00018

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

Indoor and outdoor heat protection of buildings (concrete, brick, plastered surfaces).

#### 1.2.1. Use descriptors for identified uses

Use in industrial sites [IS].

#### 1.2.2. Contraindicated uses

Use other than the above is contraindicated.

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

Manufacturer and person responsible for this safety data sheet: **Műszer Automatika Vegyesipari Kereskedelmi és Kft. Szolgáltató Kft.**  
H-2040 Budaörs, Komáromi street 22.  
Tel: +36-23-365-280  
e-mail: [mautom@muszerautomatika.hu](mailto:mautom@muszerautomatika.hu)

### 1.4. Emergency telephone number

Health Toxicology Information Service: **Egészségügyi Toxikológiai Tájékoztató Szolgálat**  
H-1096 Budapest, Nagyvárad square 2.  
Tel: +36-80-201-199  
e-mail: [ettsz@okbi.antsz.hu](mailto:ettsz@okbi.antsz.hu)

## SECTION 2: HAZARDS IDENTIFICATIONS

### 2.1. Classification of the substance or mixture


Classification according to Regulation (EC) No. 1272/2008:

According to the manufacturer and the relevant regulations the product is not a hazardous mixture.

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008:

The mixture is not dangerous under Regulation (EC) No 1272/2008.

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Hazard pictograms: not necessary.

Warning: not necessary.

Warning statements: not necessary.

Precautionary statements: not necessary.

Supplemental label elements:

**EUH208** Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

**EUH210** Safety data sheet available on request.

### 2.3. Other hazards

The preparation does not meet the criteria for vPvB according to regulation XIII of Regulation (EC) No 1907/2006. of this Regulation.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable.

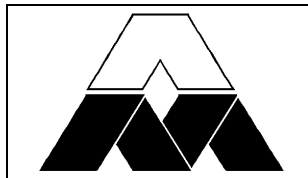
### 3.2. Mixtures

The chemical identity of the ingredient under Regulation (EC) No 1272/2008:

Hazardous ingredient REACH registration number	CAS No.	EC No.	Weight %	Classification
<b>Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)<sup>(1)</sup></b> -	55965-84-9	-	< 0,00025 %	Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 3, H331 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
<b>Titanium-dioxide</b>	13463-67-7	236-675-5	< 1,0 %	Carc. 2, H351

<sup>(1)</sup> Ingredient with specific concentration limit: Skin Corr. 1B, H314:  $C \geq 0,6\%$ ; Skin Irrit. 2, H315:  $0,06\% \leq C < 0,6\%$ ; Eye Irrit. 2, H319:  $0,06\% \leq C < 0,6\%$ ; Skin Sens. 1, H317:  $C \geq 0,0015\%$ . Further additional hazardous ingredient does not exceed the labeling amount.

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



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## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Instructions for inhalation:	Remove affected person to fresh air and put in rest position to breathe easily. If you feel unwell, seek medical advice.
Instruction for skin contact:	Wash skin with water/shower. All contaminated clothing should be removed immediately. Wash contaminated clothing before re-use. In case of skin irritation contact a doctor.
Instruction for eye contact:	For several minutes, gently rinse with water. The intact eye should be protected. Removal of contact lenses, if applicable, can be easily solved. Continue rinsing. In case of eye irritation contact a doctor.
Instructions for ingestion:	Rinse the mouth of the injured with water and drink plenty of water. Use artificial respiration if unconscious. Do not induce vomiting. If you feel unwell, seek medical advice.

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

Inhalation:	May cause irritation of the respiratory tract, resulting in cough or throat.
Skin contact:	Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
Eye contact:	It may cause redness, itching.
Ingestion:	It may cause nausea, vomiting.


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

Use symptomatic treatment. Show the product label or safety data sheet to the doctor.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media:	Water spray/mist, powder, carbon-dioxid, foam.
Unsuitable extinguishing media:	Water jet.

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## 5.2. Special hazards arising from the substance or mixture

Fire risk:	Not flammable.
Explosion hazards:	The mixture is not explosive.
Reactivity:	The mixture is stable under normal conditions.
Hazardous decomposition products:	There is no known hazardous decomposition product.

## 5.3. Advice for firefighters

<b>Personal protective equipment for fire-fighters:</b>	Wear a standard fire extinguisher (MSZ EN 469). Wear a closed system protective device (SCBA, EN 133).
Other information:	Cool containers exposed to high temperatures with a jet of water, if possible, remove them from the heat-exposed zone.

## SECTION 6: ACCIDENTAL RELEASE MEASURE

### 6.1. Personal precautions, protective equipment and emergency procedures


For non-emergency staff:	Use protective equipment as described in Section 8. Ensure adequate ventilation. Avoid contact with clothing and eyes.  Avoid inhaling mist, vapors, spray. Use only in well-ventilated areas. Be sure to avoid entering the drain.  Remove contaminated clothing and rinse it out before re-use. Provide laundry facilities at the workplace.
For emergency staff:	During the rescue work, use a mixture resistant protective clothing, respirator, protective gloves and eye shield as described in Section 8. In case of exposure or suspected illness seek medical attention.

### 6.2. Environmental precautions

Other remarks:	Avoid release to the environment. Do not allow to enter soil, ground-water, water courses. In case of potential or actual concern to the environment, see section 6.1.
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### 6.3. Methods and materials for containment and cleaning up

Localization:	Use a remover tray for large quantities of waste. Being absorb the spilled mixture, use dry sand or emergency absorbent.
Cleaning:	Collect the applied absorbed material then dispose it in a well-sealed container. Contaminated soiling contaminated with the mixture shall be considered to be the same hazard as the mixture. Wash contaminated surfaces with plenty of water.
Other information:	Further relevant information is not available

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#### 6.4. Reference to other sections

For information on safe handling, see Section 7.

For personal protective equipment see Section 8.

For disposal information see Section 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

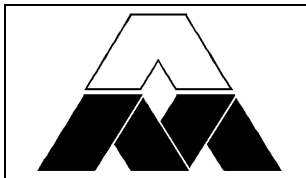
Handling precautions:	<p>Observe general occupational health safety precautions when using this mixture.</p> <p>Work in a properly ventilated room.</p> <p>Use appropriate personal protective equipment.</p> <p>Do not eat, drink or smoke when using this mixture.</p> <p>Avoid contact with skin and eyes.</p> <p>At the place of work, mark the dangers arising from the mixture with the sign in accordance with Directive 1992/58 / EEC.</p> <p>Do not inhale.</p>
Fire and explosion protection:	The mixture is not flammable. The mixture is not explosive.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage requirements:	<p>A chemical resistant floor is required.</p> <p>Keep in tightly closed containers, in original packaging. Keep in a cool, dry place, kept locked. Store vertically position. Keep out of the reach of children.</p> <p>Do not expose it to direct sunlight.</p> <p>Keep in the packaging provided by the manufacturer, apply the mixture-resistant packaging if necessary.</p>
Storage temperature:	Store at temperatures between +5 and + 40 ° C. Frost, heat, direct sunlight should be avoided.
Can not be stored together:	Keep away from food, drink and feed.
Packaging materials:	-
Insufficient packaging material:	No incompatible packaging is known.
Information on storage conditions:	Wet environment should be avoided. Avoid falling or damage of the container.

#### 7.3. Specific end use(s)

End uses:	As described in Section 1.2.
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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational air quality limits are 25/2000. (IX.30.) EüM-SzCsM as follows:

The product does not contain any labeling material with a workplace exposure limit value.

### 8.2. Exposure controls

#### Recommended monitoring procedures:

Care should be taken when handling the product with due care. According to 25/2000. (IX. 30.) EüM-SzCsM Regulation the employer is obliged to reduce the level of exposure to the lowest possible level based on scientific and technical standards for the non-limited hazardous substance, at which level, according to the state of the art, the dangerous substance has no detrimental effect on the health.

If necessary, apply artificial ventilation to ensure adequate ventilation.

#### Personal precautions, protective equipments:

Do not use until all safety precautions have been read and understood .

Wash your hands thoroughly at the beginning of the breaks after work. Do not eat while working. Do not smoke. Avoid contact with eyes and skin. Do not swallow. Do not inhale the spray. Take off contaminated clothing.

Protective clothing:

See below, materials that meet the relevant standards.

Hand protection:

Wear chemically resistant gloves (EN 374). When selecting a protective gloves, take into account the passage time, the diffusion capability and the decay rate.

Eye/face protection:

Wear properly sealed safety goggles (EN 166).

Skin protection:

Working clothes, safety shoes. Immediately after skin contact, wash the affected skin. wear protective helmet during loading operations.

Respiratory protection:


Not intended for normal use and in case of suitable ventilation.

If adequate ventilation can not be ensured and there is a potential risk for inhalation of vapor from the product, wear an EN 140, A Type or equivalent gas mask with an organic vapor filter. (Filter capacity is determined by exposure estimation.)

Respiratory protection only serves to protect the residual risk of short-term activities when practically feasible steps have been taken to minimize the danger at the place (eg. local air extraction) of danger. The manufacturer's instructions for use and maintenance of respirators must be observed.

Thermal hazards:

In the case of specified uses of the mixture, such effect may not occur.

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**Environmental exposure controls:** During application, if necessary, residual waste in the air and technological sewage must be recovered. Handling, transportation and transloading of the material must also account for the possibility of an accident, so the storage and loading conditions of the mixture must be selected accordingly.

**Limitation of user exposure:** The limitation of user exposure is ensured by the specification of the user descriptors and the associated work safety requirements defined under the REACH Regulation.

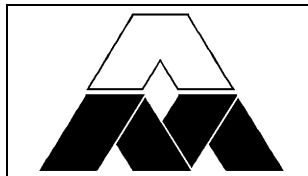
## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state:	Dense dispersion.
Colour:	White.
Odour:	Faint, characteristic.
Odour threshold:	No data available.
pH-value (20°C):	9,0 – 9,8.
Melting/freezing point:	0°C (water).
Boiling point:	100°C (water).
Flash point:	No data available.
Evaporation rate:	No data available.
Inflammability:	Not applicable.
Explosion limits (v/v %):	No data available.
Vapour pressure (20°C):	No data available.
Vapour density:	No data available.
Density (20°C):	0,7 – 0,8 g/cm <sup>3</sup> .
Solubility in water:	Unlimited miscible with water
Partition coefficient n-octanol/water:	Not applicable.
Decomposition temperature:	No data available.
Self-ignition temperature:	No data available.
Dynamic viscosity (23°C):	No data available.
Explosion hazard:	The mixture is not explosive.
Oxidising properties:	No data available.

### 9.2. Other information

VOC content: This product contains maximum 40 g/l VOC.



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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity: Under the recommended storage and transport conditions it is stable.

### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction is expected.

### 10.4. Conditions to avoid

Conditions to avoid: Direct sunlight, high temperatures should be avoided.

### 10.5. Incompatible materials

Incompatible materials: Do not store with food, drink or feed.

### 10.6. Hazardous decomposition products

Decomposition products: There is no known hazardous decomposition product.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity: No known acute toxicity. Based on available data, classification criteria are not met.

Skin corrosion/Irritation: No known skin corrosion/irritation effect. Based on available data, classification criteria are not met.

Serious eye damage/irritation: No known eye damage. Based on available data, classification criteria are not met.

Respiratory/Skin sensitisation: Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Germ cell mutagenicity: No known mutagenic effect. Based on available data, classification criteria are not met.


Carcinogenicity: No known carcinogenic effect. Based on available data, classification criteria are not met.

Reproductive toxicity: No known effect on reproduction. Based on available data, classification criteria are not met.

Specific target organ toxicity (single exposure) : No known specific target organ effects after single exposure. Based on available data, classification criteria are not met.

Specific target organ toxicity (repeated exposure): No known specific target organ effects after repeated exposure. Based on available data, classification criteria are not met.



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Aspiration hazard: No known aspiration hazard. Based on available data, classification criteria are not met.

Chronic toxicity: The mixture is not classified.

## 12. SZAKASZ: ECOLOGICAL INFORMATION

### 12.1. Toxicity

The mixture is not classified.

### 12.2. Persistence and degradability

The mixture is not classified.

### 12.3. Bioaccumulative potential

The mixture is not classified.

### 12.4. Mobility in soil

It must not be placed in soil, groundwater or drainage system.

### 12.5. Results of PBT and vPvB assessment

This mixture is not a PBT or vPvB preparation according to the REACH Regulation.

### 12.6. Other adverse effects

Do not allow product to reach surface water, sewage system or ground water directly.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

National regulation: 2012 CLXXXV. law on waste;  
225/2015. (VIII.7.) Government regulation on the detailed rules for certain activities related to hazardous waste;  
Regulation (EC) No 2008/98 on waste and repealing certain Directives;  
72/2013. (VIII. 27.) VM regulation on the Waste List.


Waste management recommendations: The chemical hazard of the wrapping of the mixture should be assessed based on the material safety data sheet. Keep the empty wrapping tightly closed. The mixture that has become waste is stored in its original packaging. Never throw it into municipal waste. Do not allow product to reach surface water, sewage system or ground water.

Waste List code: -

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

It is not a dangerous product under the regulations for the transport of dangerous goods.

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#### 14.2. UN proper shipping name

It is not a dangerous product under the regulations for the transport of dangerous goods.

#### 14.3. Transport Hazard Class Szállítási veszélyességi osztály

It is not a dangerous product under the regulations for the transport of dangerous goods.

#### 14.4. Packing group

It is not a dangerous product under the regulations for the transport of dangerous goods.

#### 14.5. Environmental hazard

No known environmental hazard.

#### 14.6. Special precautions for user

It is not a dangerous product under the regulations for the transport of dangerous goods.

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

It is not a dangerous product under the regulations for the transport of dangerous goods.

#### 14.8. Shipping description on transport documents

It is not a dangerous product under the regulations for the transport of dangerous goods.

### SECTION 15: REGULATORY INFORMATION

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

Directive 2012/18 / EU:

Not applicable.

EU regulations:


No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45 / EC and repealing Council Regulation (EEC) No 793/93, / 94 / EC, Council Directive 76/769/EEC, 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC repealing this Directive;

Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH);

Regulation (EU) No 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Regulation (EC) No 1272/2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC and amending Regulation (EC) No 1907/2006;

Regulation (EC) No 67/548 / EEC (DSD) on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances;

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Directive 1999/13 / EC (VOC Directive) on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations;

Directive 1999/45 / EC (DPD) on the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations;

Directive 92/58 / EEC on the minimum safety and health requirements for workplace safety (Ninth individual Directive within the meaning of Article 16 (1) of Directive 89/391 / EEC).

National regulations:

XXV. Act on Chemical Safety;

XCIII. Act on Occupational Safety;

44/2000. (XII.27.) EüM regulation on the detailed rules for certain procedures and activities related to dangerous substances and dangerous preparations;

25/2000. (IX.30.) EüM-SzCsM regulation on the chemical safety of workplaces.

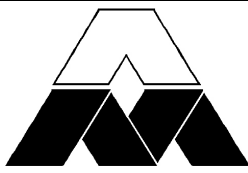
## 15.2. Chemical Safety Assessment

The downstream user did not carry out a chemical safety assessment for that mixture.

## SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:

CAS	Chemical Abstracts Service.
DNEL	Derived No Effect level.
DMEL	Derived Minimal Effect level.
DSD	COUNCIL DIRECTIVE of 27 June 1967 on the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous substances (67/548 / EEC).
EC50	The effective concentration of the substance, which results in 50% of the highest response reaction.
EC number	European Community number.
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
ErC50	Growth EC50 value.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.



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LC50	(Median lethal concentration) value is the fog/mist or powder concentration which, in the case of continuous inhalation of a definite period of time, is likely to cause death within half a dozen of test organisms. The result is given per unit volume of air in mg/m <sup>3</sup> or ppm.
LD50	(Median lethal dose) value is the statically calculated single dose of the substance in the specified exposure which is expected to cause death in 50% of the reference organisms during a defined time interval. The LD50 is expressed as the ratio of the administered amount of test substance to the body weight of the test organism (mg/kg).
NOAEL	No Observed Adverse Effect Level.
NOEC	No Observed Effect Concentration.
NOEL	No Observed Effect Level.
NOELr	No Observed Effect Loading Rate.
PAV	Permissible Average Concentration: the average concentration of air pollutant in the workplace air for a shift which does not normally have a harmful effect on the worker's health. If the exposure time spent is shorter than the reference time, air pollution can not exceed the PAV value.
PBT	Persistent, Bioaccumulative and Toxic.
PPC	Permissible Peak Concentration (permissible maximum air pollution for a short period of time): the maximum permissible concentration of air pollutants within a range exceeding the PAV value.
POW	Partition coefficient n-octanol/water.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals.
STEL	Short Term Exposure Limit (15 minutes).
TWA	Time Weighted Average.
VOC	Volatile organic compound.
vPvB	Very Persistent and Very Bioaccumulative.

Full text of the H-Statements in Sections 2 and 3 of this Safety Data Sheet:

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.

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H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
EUH210	Safety data sheet available on request.

The full text of the codes of hazard classes and categories in Sections 2 and 3 of the Safety Data Sheet:

Acute. Tox. 3, H301, H311, H331	Acute Toxicity (oral, dermal, inhalation) - Category 3.
Aquatic Acute 1, H400	Aquatic Hazard (acute) - Category 1.
Aquatic Chronic 1, H410	Aquatic Hazard (Long-term) - Category 1.
Carc. 2, H351	Carcinogen, Category 2.
Eye Irrit. 2, H319	Irritating effect on eyes, Category 2.
Skin Corr. 1B, H314	Skin Corrosion/Irritation - Category 1B.
Skin Irrit. 2, H315	Skin irritating effect Category 2.
Skin Sens. 1, H317	Skin Sensitization - Category 1.

Method of classification of the mixture: Classification was based on the properties of each component.

References: European Chemicals Agency (ECHA) database containing registered chemicals and properties: <http://echa.europa.eu/hu/>

European Chemicals Agency (ECHA) guidelines for the preparation of safety data sheets: [http://echa.europa.eu/documents/10162/23036412/sds\\_hu.pdf](http://echa.europa.eu/documents/10162/23036412/sds_hu.pdf)

Európai Vegyi anyag-ügynökség (ECHA) útmutatója a címkézéshez: [http://echa.europa.eu/documents/10162/23036412/clp\\_labelling\\_hu.pdf](http://echa.europa.eu/documents/10162/23036412/clp_labelling_hu.pdf)

European Chemicals Agency (ECHA) Guide to Information Requirements and Chemical Safety Assessment: [https://echa.europa.eu/documents/10162/13632/information\\_requirements\\_r12\\_hu.pdf](https://echa.europa.eu/documents/10162/13632/information_requirements_r12_hu.pdf)  
<http://eur-lex.europa.eu>

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