Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.11.2023 *Version number 3 (replaces version 2)* *Revision: 10.11.2023*

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

· **1.1 Product identifier**

· **Trade name: 733 Superior S2**

· **Article number:** *733*
· **UFI:** *7X02-K0AR-400P-JXX0*
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / preparation** *Tile adhesive*

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Forbo Eurocol Nederland B.V.
Industrieweg 1-2
NL-1521 NA Wormerveer Holland
Tel. +31 75 6271600 - Fax +31 75 6283564
E-mail address: info.eurocol@forbo.com

Website: www.eurocol.com
· **1.4 Emergency telephone number:**
In case of emergency please contact the Dutch National Poison Control, telephone number: 0031-(0)88-755 8000 (This number is only accessible to the physician treating the patient and only in case of accidental poisoning).

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2	*H315 Causes skin irritation.*
Eye Dam. 1	*H318 Causes serious eye damage.*
Skin Sens. 1	*H317 May cause an allergic skin reaction.*
STOT SE 3	*H335 May cause respiratory irritation.*

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
· **Hazard pictograms**

GHS05 GHS07

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**
Portland cement clinker
· **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.

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H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

· **Precautionary statements**

P261	*Avoid breathing dust.*
P280	*Wear protective gloves.*
P301+P310	*IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P404	*Store in a closed container.*
P501	*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*
· **Determination of endocrine-disrupting properties**
The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** *Mixture: consisting of the following components.*

· **Dangerous components:**

CAS: 65997-15-1 *EINECS: 266-043-4*	*Portland cement clinker* *Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335*	*>25-50%*
CAS: 13463-67-7 *EINECS: 236-675-5*	*titanium dioxide* *Carc. 2, H351*	*<1%*

· **Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:** *Immediately remove any clothing soiled by the product.*
· **After inhalation:**
In case of unconsciousness place patient stably in side/recovery position for transportation.
· **After skin contact:** *Immediately rinse with water.*
· **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
· **After swallowing:** *Rinse mouth with water and then drink plenty of water, consult physician immediately.*
· **Information for doctor:** *Product reacts with moisture into alkaline mixture.*
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*

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· **5.3 Advice for firefighters**
· **Protective equipment:** *No special measures required.*
· **Additional information** *Product itself does not burn.*

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** *Not required.*
· **6.2 Environmental precautions:**
No special measures required.
Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure sufficient ventilation and avoid formation of dust. Do not inhale dust. Avoid contact with eyes and skin.
· **Information about fire - and explosion protection:** *No special measures required.*

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** *No special requirements.*
· **Information about storage in one common storage facility:** *Not required.*
· **Further information about storage conditions:** *Store in cool, dry conditions in well sealed packaging.*
· **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
65997-15-1 Portland cement clinker	
WEL	*Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust*
13463-67-7 titanium dioxide	
WEL	*Long-term value: 10* 4** mg/m³ *total inhalable **respirable*

· **DNELs**		
13463-67-7 titanium dioxide		
Oral	*DNEL*	*700 mg/kg (Consumer)*
Inhalative	*DNEL Inhalative long terme*	*10 /mg/m³ (wrk)*

· **PNECs**	
13463-67-7 titanium dioxide	
PNEC mg/l	*0.0184 mg/l (Sea Water)*

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PNEC mg/kg	0.184 mg/l (Fresh Water) 100 mg/kg (Soil) 100 mg/kg (Sea Water Sediment) 1,000 mg/kg (Fresh Water Sediment)

· **Additional information:** *The lists valid during manufacture were used as basis.*

· **8.2 Exposure controls**
· **Appropriate engineering controls** *No further data; see item 7.*
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale dust.
· **Respiratory protection:**
Use suitable respiratory protective device (filter P2) in case of insufficient ventilation.
· **Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material is dependant on the penetration times, rates of diffusion and degradation.
· **Material of gloves**
Use chemical resistant gloves classified under EN374. Examples of preferred glove materials that form a barrier: butyl rubber or chloroprene rubber. If prolonged or repeated contact can occur, gloves with a protection class of 6 (breakthrough time greater than 480 minutes) are recommended according to EN 374. Ask your glove supplier to advise you on the right type and thickness.
· **Penetration time of glove material** *≥ 480 Minutes*
· **For prolonged contact gloves made of the following materials are suitable:**
Chloroprene and butylrubber.
· **Eye/face protection**

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**

· **Colour:**	*Grey*
· **Odour:**	*Characteristic*
· **Odour threshold:**	*Not determined.*
· **Melting point/freezing point:**	*Undetermined.*
· **Boiling point or initial boiling point and boiling range**	*Undetermined.*
· **Flammability**	*Not determined.*
· **Lower and upper explosion limit**	
· **Lower:**	*Not determined.*
· **Upper:**	*Not determined.*
· **Flash point:**	*Not applicable.*

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· **Decomposition temperature:**	*Not determined.*
· **pH**	*>11 (4000 g/l)*
· **Viscosity:**	
· **Kinematic viscosity**	*Not applicable.*
· **Dynamic:**	*Not applicable.*
· **Solubility**	
· **water:**	*Slightly soluble.*
· **Partition coefficient n-octanol/water (log value)**	*Not determined.*
· **Vapour pressure:**	*Not applicable.*
· **Density and/or relative density**	
· **Density at 20 °C:**	*1.3 g/cm³*
· **Relative density**	*Not determined.*
· **Vapour density**	*Not applicable.*
· **Particle characteristics**	*See item 3.*

· **9.2 Other information**	
· **Appearance:**	
· **Form:**	*Powder*
· **Important information on protection of health and environment, and on safety.**	
· **Auto-ignition temperature:**	*Product is not self-igniting.*
· **Explosive properties:**	*Product does not present an explosion hazard.*
· **Solvent content:**	
· **Organic solvents:**	*0.0 %*
· **Change in condition**	
· **Evaporation rate**	*Not applicable.*

· **Information with regard to physical hazard classes**	
· **Explosives**	*Void*
· **Flammable gases**	*Void*
· **Aerosols**	*Void*
· **Oxidising gases**	*Void*
· **Gases under pressure**	*Void*
· **Flammable liquids**	*Void*
· **Flammable solids**	*Void*
· **Self-reactive substances and mixtures**	*Void*
· **Pyrophoric liquids**	*Void*
· **Pyrophoric solids**	*Void*
· **Self-heating substances and mixtures**	*Void*
· **Substances and mixtures, which emit flammable gases in contact with water**	*Void*
· **Oxidising liquids**	*Void*
· **Oxidising solids**	*Void*
· **Organic peroxides**	*Void*
· **Corrosive to metals**	*Void*
· **Desensitised explosives**	*Void*

SECTION 10: Stability and reactivity

· **10.1 Reactivity** *No further relevant information available.*
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.

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· **10.3 Possibility of hazardous reactions** *No dangerous reactions known.*
· **10.4 Conditions to avoid** *No further relevant information available.*
· **10.5 Incompatible materials:** *No further relevant information available.*
· **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

*
SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** *Based on available data, the classification criteria are not met.*

· **LD/LC50 values relevant for classification:**		
13463-67-7 titanium dioxide		
Oral	*LD50*	*>20,000 mg/kg (rat)*
Dermal	*LD50*	*>10,000 mg/kg (rabbit)*
Inhalative	*LC50/4 h*	*>6.82 mg/l (rat)*

· **Skin corrosion/irritation**
Causes skin irritation.
· **Serious eye damage/irritation**
Causes serious eye damage.
· **Respiratory or skin sensitisation**
Product can cause irritation on the longer term dermatitis. This impact is caused by alcality of the product in water and on mechanical damage of the skin.
· **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
· **Carcinogenicity** *Based on available data, the classification criteria are not met.*
· **Reproductive toxicity** *Based on available data, the classification criteria are not met.*
· **STOT-single exposure**
May cause respiratory irritation.
· **STOT-repeated exposure** *Based on available data, the classification criteria are not met.*
· **Aspiration hazard** *Based on available data, the classification criteria are not met.*
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

*
SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
13463-67-7 titanium dioxide	
LC50/96h	*>1,000 mg/l (Pimephales promelas)*
EC50/72 h	*16 mg/l (Pseudokirchnerella subcapitata)*
LC50/48 h	*>100 mg/l (daphnia)*
LC50/96 h	*>100 mg/l (OM)*

· **12.2 Persistence and degradability** *No further relevant information available.*
· **12.3 Bioaccumulative potential** *No further relevant information available.*
· **12.4 Mobility in soil** *No further relevant information available.*
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*
· **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.

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· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **European waste catalogue**	
HP4	*Irritant - skin irritation and eye damage*
HP5	*Specific Target Organ Toxicity (STOT)/Aspiration Toxicity*
HP13	*Sensitising*

· **Uncleaned packaging:**
· **Recommendation:** *Disposal must be made according to official regulations.*
· **Recommended cleansing agents:** *Warm water, if necessary together with cleansing agents.*

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR, ADN, IMDG, IATA**	*Void*
· **14.2 UN proper shipping name**	
· **ADR, ADN, IMDG, IATA**	*Void*
· **14.3 Transport hazard class(es)**	
· **ADR, ADN, IMDG, IATA**	
· **Class**	*Void*
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	*Void*
· **14.5 Environmental hazards:**	*Not applicable.*
· **14.6 Special precautions for user**	*Not applicable.*
· **14.7 Maritime transport in bulk according to IMO instruments**	*Not applicable.*
· **UN "Model Regulation":**	*Void*

*
SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

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· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**

· **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
· **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

*
SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

· **Department issuing SDS:** *R&D department*
· **Contact:** *Ing. T.W. Breeuwer*
· **Version number of previous version:** *2*
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· *** Data compared to the previous version altered.**