

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

1.1. Product identifier

Product form : Mixture
Trade name : Predicta Cement - Base Component

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Bioactive Self-Adhesive Cement

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Parkell Inc.
300 Executive Drive
Edgewood, NY 11717
T (631) 249-1134

Authorized Representative in Europe (Regulatory affairs only)
Directa AB
Finvids väg 8
SE-194 47 Upplands Väsby
Sweden

1.4. Emergency telephone number

Emergency number : INFOTRAC 1-352-323-3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 1B	H360
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

May damage fertility or the unborn child. Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

GHS09

Signal word (CLP) : Danger

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Contains	: 2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester; N,N-Dimethylaminoethyl methacrylate; Benzoic acid, 4-(dimethylamino)-, ethyl ester
Hazard statements (CLP)	: H302 - Harmful if swallowed. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H360 - May damage fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing mist, spray. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P391 - Collect spillage.

2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bicyclo[2.2.1]heptane-2,3-dione, 1,7,7-trimethyl-, (+-)-	CAS-No.: 10373-78-1 EC-No.: 233-814-1	0 – 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester	CAS-No.: 6606-59-3 EC-No.: 229-551-7	5 – 15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester	CAS-No.: 1565-94-2 EC-No.: 216-367-7	5 – 15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Glass, oxide	CAS-No.: 65997-17-3 EC-No.: 266-046-0 EC Index-No.: 650-016-00-2	5 – 15	Carc. 1B, H350i
N,N-Dimethylaminoethyl methacrylate	CAS-No.: 2867-47-2 EC-No.: 220-688-8 EC Index-No.: 607-132-00-3	0 – 15	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	CAS-No.: 162881-26-7 EC-No.: 423-340-5 EC Index-No.: 015-189-00-5	1 – 15	Skin Sens. 1A, H317 Aquatic Chronic 4, H413

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]-	CAS-No.: 41637-38-1 EC-No.: 609-946-4	5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 4, H413
2-Hydroxyethyl methacrylate (HEMA)	CAS-No.: 868-77-9 EC-No.: 212-782-2 EC Index-No.: 607-124-00-X	0 – 10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319
Benzoic acid, 4-(dimethylamino)-, ethyl ester	CAS-No.: 10287-53-3 EC-No.: 233-634-3	0 – 10	Repr. 1B, H360 Aquatic Chronic 2, H411
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	CAS-No.: 75980-60-8 EC-No.: 278-355-8 EC Index-No.: 015-203-00-X	0 – 10	Repr. 2, H361f
Calcium fluoride (CaF ₂) substance with a Community workplace exposure limit	CAS-No.: 7789-75-5 EC-No.: 232-188-7	1 – 10	Not classified
Trimethylolpropane trimethacrylate	CAS-No.: 3290-92-4 EC-No.: 221-950-4	1 – 5	Aquatic Chronic 2, H411
Thiourea, 2-propenyl-	CAS-No.: 109-57-9 EC-No.: 203-683-5	1 – 5	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight)
2-Hydroxy-4-methoxybenzophenone	CAS-No.: 131-57-7 EC-No.: 205-031-5	0 – 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2,6-di-tert-butyl-p-cresol	CAS-No.: 128-37-0 EC-No.: 204-881-4	0 – 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits

Name	Product identifier	Specific concentration limits
2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester	CAS-No.: 6606-59-3 EC-No.: 229-551-7	(10 ≤C ≤ 100) STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse immediately with plenty of water for 15 minutes. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: May damage fertility or the unborn child.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : On combustion forms: Carbon oxides (CO, CO₂). Toxic fumes may be released.
Explosion hazard : None known.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing mist, spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Mechanically recover the product. On land, sweep or shovel into suitable containers. Store away from other materials. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing spray, mist. Avoid contact with skin and eyes.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Store locked up.
- Incompatible materials : Strong acids.

7.3. Specific end use(s)

See Heading 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

2-Hydroxyethyl methacrylate (HEMA) (868-77-9)	
Lithuania - Occupational Exposure Limits	
Local name	Etilenglikolio metakrilo eteris
IPRV (OEL TWA)	20 mg/m ³
Remark (LT)	J (jautrinantis poveikis)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Norway - Occupational Exposure Limits	
Local name	2-hydroksyetylmetakrylat
Greenseverdi (OEL TWA) [1]	11 mg/m ³
Greenseverdi (OEL TWA) [2]	2 ppm
Merknader (NO)	A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt.
Regulatory reference	FOR-2020-04-06-695
Glass, oxide (65997-17-3)	
Belgium - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (fibers or dust)
Bulgaria - Occupational Exposure Limits	
OEL TWA	1 fibers/cm ³ Минерални, природни (неаз-естови) и изкуствени влакна, Влакна - респирабилна фракция, бр. вл./см ³
Cyprus - Occupational Exposure Limits	
OEL TWA	10 mg/m ³

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Glass, oxide (65997-17-3)	
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	5 mg/m ³ Jiné prachy s dráždivým účinkem: prach sklolaminátů
NPK-P (OEL C)	5 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA [1]	1 fibers/cm ³ KERAMISKE FIBRE
Estonia - Occupational Exposure Limits	
OEL TWA	1 fibers/cm ³ Klaaskiud, sünteetilised anorgaanilised
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	5 mg/m ³
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	1 fibers/cm ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	5 mg/m ³
OEL TWA [2]	2 fibers/cm ³
Italy - Occupational Exposure Limits	
OEL TWA	1 fibers/cm ³ Fibre di vetro a filamento continuo
Latvia - Occupational Exposure Limits	
OEL TWA	2 mg/m ³ Silikāti un alumosilikāti: keramika
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	0.2 fibers/cm ³ Sintetiniai neorganiniai, amorfiniai plaušeliai
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	1 fibers/cm ³ Sztuczne włókna mineralne, z wyjątkiem ogniotrwałych włókien ceramicznych, włókna respirabilne
Portugal - Occupational Exposure Limits	
OEL TWA	1 fibers/cm ³ FIBRAS INORGÂNICAS ARTIFICIAIS - FIBRAS DE VIDRO DE FILAMENTO CONTÍNUO
Romania - Occupational Exposure Limits	
OEL TWA	1 fibers/cm ³
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	4 mg/m ³ umelé minerálne vlákna (napríklad čadičové, sklenené, troskové)
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	0.5 fibers/cm ³ Fibras manufacturadas, Fibras vítreas artificiales (fibra de vidrio, lana mineral, etc.)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1 fibers/cm ³ Fibrer, syntetiska oorg. glasartade fibrer (amorfa): Övriga fibrer: Kontinuerliga glasfibrer
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	5 mg/m ³ REFRACTORY CERAMIC FIBRES AND SPECIAL PURPOSE FIBRES
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	0.5 fibers/cm ³

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Silicon dioxide (7631-86-9)	
Austria - Occupational Exposure Limits	
Local name	Kieselsäuren, amorphe
MAK (OEL TWA)	4 mg/m ³ (E)
Remark (AT)	inhalable aerosol
Regulatory reference	BGBl. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (inhalable fraction)
Czech Republic - Occupational Exposure Limits	
Local name	Amorfní SiO ₂
PEL (OEL TWA)	4 mg/m ³
Remark (CZ)	Prachy s možným fibrogenním účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
OEL TWA [1]	2 mg/m ³
OEL STEL	4 mg/m ³
Anmærkninger (DK)	inhalable aerosol
Estonia - Occupational Exposure Limits	
Local name	Räni (räni dioksiid)
OEL TWA	2 mg/m ³ peentolm
Remark (ET)	1 (Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad jõuda koos sissehingatava õhuga kopsu alveoolidesse (respireeritav fraktsioon))
Chemical category	Carcinogenic substance respirable dust
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	5 mg/m ³
HTP (OEL STEL)	5 mg/m ³ (inhalable fraction)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Kieselsäuren, amorphe
AGW (OEL TWA) [1]	4 mg/m ³ (E)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); 2 - Kolloidale amorphe Kieselsäure (7631-86-9) einschließlich pyrogener Kieselsäure und im Nassverfahren hergestellter Kieselsäure (Fällungskieselsäure, Kieselgel; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
OEL TWA [1]	2.4 mg/m ³ (respirable,dust)
OEL STEL	6 mg/m ³ (total inhalable,dust)

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Silicon dioxide (7631-86-9)	
Latvia - Occupational Exposure Limits	
Local name	Silīcija dioksīds
OEL TWA	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 11)
Slovenia - Occupational Exposure Limits	
Local name	silikagel
OEL TWA	4 mg/m ³
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	10 mg/m ³ (inhalable fraction)
Notes	respirable aerosol
Norway - Occupational Exposure Limits	
Korttidsverdi (OEL STEL)	1.5 mg/m ³ (respirable, dust)
Zirconium oxide (ZrO₂) (1314-23-4)	
Lithuania - Occupational Exposure Limits	
Local name	Cirkonio (IV) oksidas
IPRV (OEL TWA)	6 mg/m ³
Remark (LT)	F (fibrogeninis poveikis)
Chemical category	Fibrogenic substance
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
2,6-di-tert-butyl-p-cresol (128-37-0)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	10 mg/m ³
Belgium - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-crésol (vapeur et aérosol) # Di-tert-butyl-4-methylfenol (damp en aérosol)
OEL TWA	2 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Bulgaria - Occupational Exposure Limits	
Local name	Дибутилпаракрезол
OEL TWA	10 mg/m ³
OEL STEL	50 mg/m ³
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.5 от 17 Януари 2020 г.)
Croatia - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-krezol
GVI (OEL TWA) [1]	10 mg/m ³

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

2,6-di-tert-butyl-p-cresol (128-37-0)	
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Denmark - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol (Butylhydroxytoluen)
OEL TWA [1]	10 mg/m ³
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyli-p-kresoli
HTP (OEL TWA) [1]	10 mg/m ³
HTP (OEL STEL)	20 mg/m ³
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-crésol
VME (OEL TWA)	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2,6-Di-tert-butyl-p-kresol
AGW (OEL TWA) [1]	10 mg/m ³ (E)
Peak exposure limitation factor	4(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Βουτυλο-υδροξυ-τολουόλιο
OEL TWA	10 mg/m ³
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Ireland - Occupational Exposure Limits	
Local name	2,6-Ditertiary-butyl-para-cresol [Butylated hydroxytoluene (BHT)]
OEL TWA [1]	2 mg/m ³
OEL STEL	30 mg/m ³ (calculated)
Regulatory reference	Chemical Agents Code of Practice 2020
Portugal - Occupational Exposure Limits	
Local name	Hidroxitoluenobutilado (2,6-Di-terc-butil-p-cresol) (BHT)
OEL TWA	2 mg/m ³ FIV (Fração inalável e vapor)
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

2,6-di-tert-butyl-p-cresol (128-37-0)	
Slovenia - Occupational Exposure Limits	
Local name	2,6-di-terc-butil-p-krezol
OEL TWA	10 mg/m ³
OEL STEL	40 mg/m ³
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	2,6-Diterc-butil-p-cresol
VLA-ED (OEL TWA) [1]	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (OEL TWA) [1]	10 mg/m ³
WEL STEL (OEL STEL)	30 mg/m ³ (calculated)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	2,6-Dí-tert-bútýl-p-kresól (bútýlhýdroxýtólúen)
OEL TWA	10 mg/m ³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Calcium fluoride (CaF₂) (7789-75-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	2.5 mg/m ³ FLUORIDES, INORGANIC
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	2.5 mg/m ³ FLUORIDE (ALS F BERECHNET), EINATEMBARE FRAKTION
MAK (OEL STEL)	12.5 mg/m ³ FLUORIDE (ALS F BERECHNET), EINATEMBARE FRAKTION
Belgium - Occupational Exposure Limits	
OEL TWA	2.5 mg/m ³ INORGANIC FLUORIDES
Bulgaria - Occupational Exposure Limits	
OEL TWA	2.5 mg/m ³ Fluorides, inorganic
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	2.5 mg/m ³ Fluoride, inorganic (as F)
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	2.5 mg/m ³ Inorganic fluorides
NPK-P (OEL C)	5 mg/m ³ Inorganic fluorides
Denmark - Occupational Exposure Limits	
OEL TWA [1]	2.5 mg/m ³ FLUORIDER, UNDTAGEN DE ANDETSTEDS I LISTEN NæVNTE, BEREGNET SOM F

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Calcium fluoride (CaF₂) (7789-75-5)	
Estonia - Occupational Exposure Limits	
OEL TWA	2.5 Fluorides, included hydrogen fluoride
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	2.5 mg/m ³ Inorganic fluorides (as F)
France - Occupational Exposure Limits	
VME (OEL TWA)	2.5 mg/m ³ FLUORURES INORGANIKUES
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	1 mg/m ³ FLUORIDES (AS FLUORIDE) (INHALABLE FRACTION) DFG MAK LIST
Greece - Occupational Exposure Limits	
OEL TWA	2.5 mg/m ³ FLUORIDES, AS F
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	2.5 mg/m ³ Fluorides (as F)
Ireland - Occupational Exposure Limits	
OEL TWA [1]	2.5 mg/m ³ FLUORIDES, INORGANIC
Latvia - Occupational Exposure Limits	
Local name	Kalcija fluorīds
OEL TWA	0.5 mg/m ³ (Hydrofluoric acid salts)
OEL STEL	2.5 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	2.5 mg/m ³ Fluorides, except hydrogen fluoride
Luxembourg - Occupational Exposure Limits	
OEL TWA	2.5 mg/m ³ INORGANIC FLUORIDES
Netherlands - Occupational Exposure Limits	
MAC-15 (OEL STEL)	2 mg/m ³ FLUORIDE, INORGANIC AND SOLUBLE
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	2 mg/m ³ Fluorides, as F
Portugal - Occupational Exposure Limits	
OEL TWA	2.5 mg/m ³ FLUORETOS, EXPRESSOS EM F
Romania - Occupational Exposure Limits	
Local name	Fluorură de calciu
OEL TWA	1 mg/m ³
OEL STEL	2 mg/m ³
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	2.5 mg/m ³ Fluorides - inorganic (as F)
Slovenia - Occupational Exposure Limits	
OEL TWA	2.5 mg/m ³ Fluorides - inorganic

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Calcium fluoride (CaF ₂) (7789-75-5)	
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	2.5 mg/m ³ FLUORUROS INORGÁNICOS, COMO F, EXCEPTO EL HEXAFLUORURO DE URANIO
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	2 mg/m ³ FLUORIDES (AS F)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	2.5 mg/m ³ FLOURIDE (INORGANIC, AS F)
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	0.5 mg/m ³ UORGANISKE FLUORIDER (BEREGNET SOM F)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Use eye protection according to EN 166.

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing

Hand protection:

Impermeable protective gloves. Wear suitable gloves tested to EN374

8.2.2.3. Respiratory protection

Respiratory protection:

An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Paste.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Predicta Cement - Base Component

ATE CLP (oral)	1250 mg/kg bodyweight
----------------	-----------------------

Trimethylolpropane trimethacrylate (3290-92-4)

LD50 oral rat	5660 µl/kg
---------------	------------

2-Hydroxyethyl methacrylate (HEMA) (868-77-9)

LD50 dermal rabbit	> 3000 mg/kg
--------------------	--------------

N,N-Dimethylaminoethyl methacrylate (2867-47-2)

LD50 oral rat	> 2000 mg/kg
---------------	--------------

LD50 dermal rat	> 2000 mg/kg
-----------------	--------------

LD50 dermal rabbit	> 3000 mg/kg
--------------------	--------------

LC50 Inhalation - Rat	0.62 mg/l/4h
-----------------------	--------------

Benzoic acid, 4-(dimethylamino)-, ethyl ester (10287-53-3)

LD50 dermal rat	> 2000 mg/kg
-----------------	--------------

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
---------------	------------------------------------------------------------------------------------------

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:Japan MAFF Testing Guideline of 12 Nosan No. 8147
-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

2-Hydroxy-4-methoxybenzophenone (131-57-7)

LD50 oral rat	> 12.8 g/kg
---------------	-------------

LD50 dermal rabbit	> 16 g/kg
--------------------	-----------

2,6-di-tert-butyl-p-cresol (128-37-0)

LD50 dermal rat	> 2000 mg/kg
-----------------	--------------

Calcium fluoride (CaF₂) (7789-75-5)

LD50 oral rat	4250 mg/kg
---------------	------------

LC50 Inhalation - Rat	> 5070 mg/m ³ (Exposure time: 4 h)
-----------------------	-----------------------------------------------

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

2,6-di-tert-butyl-p-cresol (128-37-0)

IARC group : 3 - Not classifiable

Reproductive toxicity : May damage fertility or the unborn child.

STOT-single exposure : May cause respiratory irritation.

2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester (6606-59-3)

STOT-single exposure : May cause respiratory irritation.

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[[1-methylethylidene]di-4,1-phenylene]bis[.omega.-[[2-methyl-1-oxo-2-propenyl)oxy]- (41637-38-1)

STOT-single exposure : May cause respiratory irritation.

Bicyclo[2.2.1]heptane-2,3-dione, 1,7,7-trimethyl-, (.+.-)- (10373-78-1)

STOT-single exposure : May cause respiratory irritation.

2-Hydroxy-4-methoxybenzophenone (131-57-7)

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

2-Hydroxyethyl methacrylate (HEMA) (868-77-9)

NOAEL (oral, rat, 90 days) : < 30 mg/kg bodyweight/day OECD 422.

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Predicta Cement - Base Component

Viscosity, kinematic : Not applicable

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : None known

11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Trimethylolpropane trimethacrylate (3290-92-4)

LC50 - Fish [1] : 144 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

LC50 - Fish [2] : 160 mg/l (Exposure time: 96 h - Species: Pimephales promelas)

2-Hydroxyethyl methacrylate (HEMA) (868-77-9)

LC50 - Fish [2] : 227 mg/l 96 hours

ErC50 algae : 836 mg/l 72 hours

NOEC (acute) : 171 mg/l 48 hours- daphnia

NOEC (chronic) : 24.1 mg/l 21 days- microorganism

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

N,N-Dimethylaminoethyl methacrylate (2867-47-2)	
LC50 - Fish [1]	19.1 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])
EC50 - Crustacea [1]	53 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)	
EC50 - Crustacea [1]	3.53 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 2.01 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
2-Hydroxy-4-methoxybenzophenone (131-57-7)	
LC50 - Fish [1]	3.8 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])

12.2. Persistence and degradability

Predicta Cement - Base Component	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Predicta Cement - Base Component	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information






In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082

Predicta Cement - Base Component


Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-di-tert-butyl-p-cresol), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-di-tert-butyl-p-cresol), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (2,6-di-tert-butyl-p-cresol), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-di-tert-butyl-p-cresol), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-di-tert-butyl-p-cresol), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	: 

Tunnel restriction code (ADR)	: -
EAC code	: •3Z

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

Inland waterway transport

Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Contains no REACH Annex XIV substances

Contains no substance subject to 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.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

France	
Occupational diseases	
Code	Description
RG 32	Occupational disorders caused by fluoride, hydrofluoric acid and its mineral salts

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Glass, oxide, Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide, Calcium fluoride (CaF₂) are listed

SZW-lijst van mutagene stoffen : Glass, oxide, Calcium fluoride (CaF₂) are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms	
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Sources of Key data : 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.

Other information : None.

Full text of H- and EUH-statements	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Carc. 1B	Carcinogenicity (inhalation) Category 1B

Predicta Cement - Base Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350i	May cause cancer by inhalation.
H360	May damage fertility or the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Acute Tox. 4 (Oral)	H302	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 1B	H360	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 2	H411	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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

1.1. Product identifier

Product form : Mixture
Trade name : Predicta Cement - Catalyst Component

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Bioactive Self-Adhesive Cement

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Parkell Inc.
300 Executive Drive
Edgewood, NY 11717
T (631) 249-1134

Authorized Representative in Europe (Regulatory affairs only)
Directa AB
Finvids väg 8
SE-194 47 Upplands Väsby
Sweden

1.4. Emergency telephone number

Emergency number : INFOTRAC 1-800-535-5053

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Organic Peroxides, Type E	H242
Acute toxicity (dermal), Category 4	H312
Skin corrosion/irritation, Category 1, Sub-Category 1C	H314
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity — Repeated exposure, Category 2	H373
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Heating may cause a fire. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Signal word (CLP)	: Danger
Contains	: Cumene hydroperoxide; Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]-;
Hazard statements (CLP)	: H242 - Heating may cause a fire. H312 - Harmful in contact with skin. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 - Keep only in original packaging. P260 - Do not breathe mist, spray. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor, a POISON CENTER.

2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]-	CAS-No.: 41637-38-1 EC-No.: 609-946-4	10 – 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 4, H413
2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester	CAS-No.: 6606-59-3 EC-No.: 229-551-7	1 – 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2-Hydroxyethyl methacrylate (HEMA)	CAS-No.: 868-77-9 EC-No.: 212-782-2 EC Index-No.: 607-124-00-X	1 – 15	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319
2-Propenoic acid, 2-methyl-, 2-hydroxy-1,3-propanediyl ester	CAS-No.: 1830-78-0 EC-No.: 217-388-4	5 – 15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Trimethylolpropane trimethacrylate	CAS-No.: 3290-92-4 EC-No.: 221-950-4	5 – 15	Aquatic Chronic 2, H411

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cumene hydroperoxide	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8	1 – 10	Org. Perox. E, H242 Acute Tox. 4 (Oral), H302 (ATE=382 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=126 mg/kg bodyweight) Acute Tox. 3 (Inhalation:dust,mist), H331 (ATE=0.5 mg/l/4h) Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Chronic 2, H411
10- Methacryloyloxydecyl dihydrogen phosphate (10-MDP)	CAS-No.: 85590-00-7	5 – 10	Eye Irrit. 2, H319 Skin Sens. 1, H317
2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester	CAS-No.: 1565-94-2 EC-No.: 216-367-7	1 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Carbonoperoxoic acid, OO-(1,1-dimethylethyl) O-(2-ethylhexyl) ester	CAS-No.: 34443-12-4 EC-No.: 252-029-5	0 – 5	Org. Perox. D, H242 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
2-[(2-Methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-1,3-dioxoisobenzofuran-5-carboxylate	CAS-No.: 70293-55-9 EC-No.: 274-547-0	1 – 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

Specific concentration limits		
Name	Product identifier	Specific concentration limits
2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester	CAS-No.: 6606-59-3 EC-No.: 229-551-7	(10 ≤C ≤ 100) STOT SE 3, H335
Cumene hydroperoxide	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8	(0 ≤C < 10) STOT SE 3, H335 (1 ≤C < 3) Eye Irrit. 2, H319 (3 ≤C < 10) Skin Irrit. 2, H315 (3 ≤C < 10) Eye Dam. 1, H318 (10 ≤C < 100) Skin Corr. 1B, H314

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash off immediately and plentifully with water for at least 20 minutes. Take off immediately all contaminated clothing. Get medical advice if skin irritation persists.
First-aid measures after eye contact	: Wash off immediately and plentifully with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Harmful in contact with skin. Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Heating may cause a fire.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.
Emergency procedures : No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Store away from other materials.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe mist, spray.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Keep away from combustible materials. Store away from other materials. Protect from sunlight. Store locked up.
Incompatible materials	: Combustible materials.
Storage temperature	: < 60 °C (140 °F)

7.3. Specific end use(s)

See Heading 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Cumene hydroperoxide (80-15-9)	
Latvia - Occupational Exposure Limits	
OEL TWA	1 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	1 mg/m ³
Chemical category	Skin notation
Zirconium oxide (ZrO ₂) (1314-23-4)	
Lithuania - Occupational Exposure Limits	
Local name	Cirkonio (IV) oksidas
IPRV (OEL TWA)	6 mg/m ³
Remark (LT)	F (fibrogeninis poveikis)
Chemical category	Fibrogenic substance
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Silicon dioxide (7631-86-9)	
Austria - Occupational Exposure Limits	
Local name	Kieselsäuren, amorphe
MAK (OEL TWA)	4 mg/m ³ (E)
Remark (AT)	inhalable aerosol
Regulatory reference	BGBl. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (inhalable fraction)
Czech Republic - Occupational Exposure Limits	
Local name	Amorfní SiO ₂
PEL (OEL TWA)	4 mg/m ³
Remark (CZ)	Prachy s možným fibrogenním účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Denmark - Occupational Exposure Limits	
OEL TWA [1]	2 mg/m ³

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Silicon dioxide (7631-86-9)	
OEL STEL	4 mg/m ³
Anmærkninger (DK)	inhalable aerosol
Estonia - Occupational Exposure Limits	
Local name	Räni (räni dioksiid)
OEL TWA	2 mg/m ³ peentolm
Remark (ET)	1 (Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad jõuda koos sissehingatava õhuga kopsu alveoolidesse (respireeritav fraktsioon))
Chemical category	Carcinogenic substance respirable dust
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	5 mg/m ³
HTP (OEL STEL)	5 mg/m ³ (inhalable fraction)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Kieselsäuren, amorphe
AGW (OEL TWA) [1]	4 mg/m ³ (E)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); 2 - Kolloidale amorphe Kieselsäure (7631-86-9) einschließlich pyrogener Kieselsäure und im Nassverfahren hergestellter Kieselsäure (Fällungskieselsäure, Kieselgel; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
OEL TWA [1]	2.4 mg/m ³ (respirable,dust)
OEL STEL	6 mg/m ³ (total inhalable,dust)
Latvia - Occupational Exposure Limits	
Local name	Silīcija dioksīds
OEL TWA	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 11)
Slovenia - Occupational Exposure Limits	
Local name	silikagel
OEL TWA	4 mg/m ³
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	10 mg/m ³ (inhalable fraction)
Notes	respirable aerosol

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

2-Hydroxyethyl methacrylate (HEMA) (868-77-9)	
Lithuania - Occupational Exposure Limits	
Local name	Etilenglikolio metakrilo eteris
IPRV (OEL TWA)	20 mg/m ³
Remark (LT)	J (jautrinantis poveikis)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Use eye protection according to EN 166.

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing

Hand protection:

Impermeable protective gloves. Wear suitable gloves tested to EN374

8.2.2.3. Respiratory protection

Respiratory protection:

An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Not available
Appearance	: Paste.

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Heating may cause a fire.
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating may cause a fire.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Predicta Cement - Catalyst Component	
ATE CLP (dermal)	1260 mg/kg bodyweight
Carbonoperoxoic acid, OO-(1,1-dimethylethyl) O-(2-ethylhexyl) ester (34443-12-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Cumene hydroperoxide (80-15-9)	
LD50 oral rat	382 mg/kg
LD50 dermal rabbit	0.126 ml/kg
LC50 Inhalation - Rat [ppm]	220 ppm/4h
2-[(2-Methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-1,3-dioxoisobenzofuran-5-carboxylate (70293-55-9)	
LD50 oral rat	> 2 g/kg
2-Hydroxyethyl methacrylate (HEMA) (868-77-9)	
LD50 dermal rabbit	> 3000 mg/kg
Trimethylolpropane trimethacrylate (3290-92-4)	
LD50 oral rat	5660 µl/kg
Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Assumed to cause serious eye damage
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause respiratory irritation.
2-Propenoic acid, 2-methyl-, 2-hydroxy-1,3-propanediyl ester (1830-78-0)	
STOT-single exposure	May cause respiratory irritation.
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]- (41637-38-1)	
STOT-single exposure	May cause respiratory irritation.
2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester (6606-59-3)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Cumene hydroperoxide (80-15-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
2-Hydroxyethyl methacrylate (HEMA) (868-77-9)	
NOAEL (oral, rat, 90 days)	< 30 mg/kg bodyweight/day OECD 422.
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Predicta Cement - Catalyst Component

Viscosity, kinematic	Not applicable
----------------------	----------------

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : No additional information available

11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

SECTION 12: Ecological information

12.1. Toxicity

Ecology – general : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Carbonoperoxoic acid, OO-(1,1-dimethylethyl) O-(2-ethylhexyl) ester (34443-12-4)

LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
-----------------	---------------------------------------------------------------------------

Cumene hydroperoxide (80-15-9)

LC50 - Fish [1]	3.9 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
-----------------	------------------------------------------------------------------------

2-Hydroxyethyl methacrylate (HEMA) (868-77-9)

LC50 - Fish [2]	227 mg/l 96 hours
ErC50 algae	836 mg/l 72 hours
NOEC (acute)	171 mg/l 48 hours- daphnia
NOEC (chronic)	24.1 mg/l 21 days- microorganism

Trimethylolpropane trimethacrylate (3290-92-4)

LC50 - Fish [1]	144 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 - Fish [2]	160 mg/l (Exposure time: 96 h - Species: Pimephales promelas)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Cumene hydroperoxide (80-15-9)

BCF - Fish [1]	35.5
----------------	------

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

12.7. Other adverse effects

Additional information : Avoid release to the environment.






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3108	UN 3108	UN 3108	UN 3108	UN 3108
14.2. UN proper shipping name				
ORGANIC PEROXIDE TYPE E, SOLID	ORGANIC PEROXIDE TYPE E, SOLID	Organic peroxide type e, solid	ORGANIC PEROXIDE TYPE E, SOLID	ORGANIC PEROXIDE TYPE E, SOLID
Transport document description				
UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (Cumene hydroperoxide), 5.2, (D), ENVIRONMENTALLY HAZARDOUS	UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (ORGANIC PEROXIDE TYPE E, LIQUID), 5.2, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3108 Organic peroxide type e, solid, 5.2, ENVIRONMENTALLY HAZARDOUS	UN 3108 ORGANIC PEROXIDE TYPE E, SOLID, 5.2, ENVIRONMENTALLY HAZARDOUS	UN 3108 ORGANIC PEROXIDE TYPE E, SOLID, 5.2, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
5.2	5.2	5.2	5.2	5.2
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
Consult the associated transport regulations for available and applicable exceptions or exemptions.				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : P1
Special provisions (ADR) : 122, 274
Limited quantities (ADR) : 500g
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P520
Mixed packing provisions (ADR) : MP4

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V1
Special provisions for carriage - Loading, unloading and handling (ADR) : CV15, CV22, CV24
Tunnel restriction code (ADR) : D
EAC code : 1W

Transport by sea

Special provisions (IMDG) : 122, 274
Limited quantities (IMDG) : 500 g
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P520
EmS-No. (Fire) : F-J
EmS-No. (Spillage) : S-R
Stowage category (IMDG) : D
Stowage and handling (IMDG) : SW1
Segregation (IMDG) : SG35, SG36, SG72
Properties and observations (IMDG) : Decomposes at elevated temperatures or in a fire. Burns vigorously. Insoluble in water. Contact with the eyes and skin should be avoided. May evolve irritant or toxic fumes.

Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) : Forbidden
PCA packing instructions (IATA) : 570
PCA max net quantity (IATA) : 10kg
CAO packing instructions (IATA) : 570
CAO max net quantity (IATA) : 25kg
Special provisions (IATA) : A20, A802
ERG code (IATA) : 5L

Inland waterway transport

Classification code (ADN) : P1
Special provisions (ADN) : 122, 274
Limited quantities (ADN) : 500 g
Excepted quantities (ADN) : E0
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : P1
Special provisions (RID) : 122, 274
Limited quantities (RID) : 500g
Excepted quantities (RID) : E0
Packing instructions (RID) : P520
Mixed packing provisions (RID) : MP4
Transport category (RID) : 2
Special provisions for carriage – Packages (RID) : W7
Special provisions for carriage - Loading, unloading and handling (RID) : CW22, CW24, CW29
Colis express (express parcels) (RID) : CE10
Hazard identification number (RID) : 539

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to 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.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

WGK remark : Most stringent classification due to insufficient data

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : 2-[(2-Methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-1,3-dioxoisobenzofuran-5-carboxylate is listed

SZW-lijst van mutagene stoffen : 2-[(2-Methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-1,3-dioxoisobenzofuran-5-carboxylate is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements

Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Org. Perox. D	Organic Peroxides, Type D
Org. Perox. E	Organic Peroxides, Type E

Predicta Cement - Catalyst Component

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Org. Perox. E	H242	Calculation method
Acute Tox. 4 (Dermal)	H312	Calculation method
Skin Corr. 1B	H314	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 2	H411	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.