

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2015/830)

Version: 1

Version date: 20/10/2016

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

1.1. Product identifier

Trade name / designation : TURBOPRINT ORTHO – R&S
 Article No (user) : B201851.

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

Relevant identified uses : For professional use only. Alignate for dental impressions.

1.3. Details of the supplier of the safety data sheet

Supplier : CFPM
 Street: 2 bis Chemin du loup
 Postal code / City: 932970 Tremblay en France
 Country: France
 Telephone: [+33 \(0\)1 45 91 31 82](tel:+330145913182)
 Telefax: [+33 \(0\)1 48 65 67 23](tel:+330148656723)
 E-mail: info@cfpm-medical.fr

1.4 Emergency Telephone Number


Not available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This mixture is classified as hazardous according to regulation (EC) 1272/2008 [CLP].

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

Classification	Hazard statements
 STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure

2.2. Label elements

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

Hazard pictograms



Signal word

Warning

Product identifiers

-

Hazard Statements

H373 - May cause damage to organs through prolonged or repeated exposure

Supplemental Hazard information (EU)

-

Precautionary Statements - General

-

Precautionary Statements - Prevention

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

Precautionary Statements - Response

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

P314 - Get medical advice/attention if you feel unwell.

Precautionary Statements - Storage

-

Precautionary Statements - Disposal

-

2.3. Other hazards

On the basis of the available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance	C (%)	Classification	Specific concentration	Note
-----------	-------	----------------	------------------------	------

C. F. P. M. – 2 bis Chemin du Loup – 93290 Tremblay-en-France
 SARL au capital de 10 000.00 Euros – RCS BOBIGNY 340 747 476

			limits	
cristobalite CAS N°:14464-46-1 EC N°:238-455-4 IDX N°:	1.0% ≤C< 8.0%	STOT RE 2: H373	-	-
dipotassium hexafluorotitanate CAS N°:16919-27-0 EC N°:240-969-9 IDX N°:	1.0% ≤C< 3.0%	Acute Tox. 4: H302 Eye Dam. 1: H318	-	-
propionic acid CAS N°:79-09-4 EC N°:201-176-3 IDX N°:607-089-00-0	0.0% ≤C< 0.2%	Skin Corr. 1B: H314	Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H319: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; H335: C ≥ 10 %	[1]

[1] Substance for which maximum workplace exposure limits are available.

3.2. Mixtures

Not available

3.3. Remark

Text phrases and H- EUH-: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

- General information : In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
- Following inhalation : Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Seek medical advice immediately.
- Following skin contact : Take off immediately all contaminated clothing and wash it before reuse. Wash with soap and water. Call a doctor.
- Following eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
- Following ingestion : Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- Self-protection of the first aider : First aider: Pay attention to self-protection!.

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

Not available

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

- Notes for the doctor : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Extinguishing powder. Carbon dioxide (CO2). Sand.

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire. Danger of explosion.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray jet to protect personnel and to cool endangered containers.

5.4. Additional information

Do not inhale vapors and fumes. Move undamaged containers from immediate hazard area if it can be done safely. Co-ordinate fire-fighting measures to the fire surroundings. Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Use personal protection equipment. Use appropriate respiratory protection. Remove persons to safety. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Ensure that waste is collected and contained.

6.3. Methods and material for containment and cleaning up

Collect in closed and suitable containers for disposal. Wash with plenty of water. Ventilate affected area. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Personal protection equipment: see section 8. Disposal: see section 13.

6.5. Additional information

Not available

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Protective measures

Read label before use. Discharge into the environment must be avoided. When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothes. Use only in well-ventilated areas.

Advices on general occupational hygiene

Wash hands before breaks and after work. Work in well ventilated zones or use proper respiratory protection. Remove contaminated, saturated clothing. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/store only in original container. Ensure adequate ventilation of the storage area. Keep container dry.

Advice on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

T: 5 - 27 ° C.

7.3. Specific end uses

Observe instructions for use.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

AUS	Österreich	Grenzwerteverordnung 2011 - GKV 2011
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
CZE	Česká Republika	Nariadení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
EST	Eesti	Töökeskkonna keemiliste ohutegurite piirnormid 1. Vastu võetud 18.09.2001 nr 293 RT I 2001, 77, 460 - Redaktsiooni jõustumise kp: 01.01.2008
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveystieteiden tutkimuskeskus julkaisu 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Council of Netherlands (SER) Values, AF 2011:18
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r

SVK Slovensko
SVN Slovenija
SWE Sverige

NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007
Uradni list Republike Slovenije 15. 6. 2007
Occupational Exposure Limit Values, AF 2011:18

Occupational exposure limits

Substance	Value	Unit	Type
propionic acid CAS: 79-09-4 (EU)	31	mg/m ³	Exposure limit (8 hours)
propionic acid CAS: 79-09-4 (EU)	62	mg/m ³	Exposure limit (15 minutes)

DNEL-/PNEC-values

DIPOTASSIUM HEXAFLUOTITANATE

PNEC	Value	Unit
Aquatic, freshwater	0.131	mg/l
Aquatic, marine water	0.131	mg/l
Sediment, freshwater	24.45	mg/kg/d
Sediment, marine water	4.89	mg/kg/d
Sewage treatment plant (STP)	1.51	mg/l
Soil	19.1	mg/kg

	DNEL workers			
	Acute		Chronic	
	Local	Systemic	Local	Systemic
Inh.	n.a.	5.2 mg/m ³	5.2 mg/m ³	5.2 mg/m ³
Der.	n.a.	75 mg/kg bw/d	n.a.	75 mg/kg bw/d

PROPIONIC ACID

PNEC	Value	Unit
Aquatic, freshwater	0.5	mg/l
Aquatic, marine water	0.05	mg/l
Sediment, freshwater	1.86	mg/kg
Sediment, marine water	0.186	mg/kg
Sewage treatment plant (STP)	5	mg/l
Soil	0.1258	mg/kg

	DNEL workers			
	Acute		Chronic	
	Local	Systemic	Local	Systemic
Inh.	62 mg/m ³	62 mg/m ³	31 mg/m ³	31 mg/m ³
Der.	n.a.	n.a.	260 mg/kg bw/d	132 mg/kg bw/d

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations.

Personal protection equipment



Eye/face protection

- : Eye glasses with side protection. DIN EN 166.
- Suitable eye protection: Eye glasses with side protection.
- Recommended eye protection articles: DIN EN 166.

Skin protection

- : Chemical protection clothing. Chemical resistant safety shoes.
- Hand protection: Suitable gloves type: Disposable gloves.
- Hand protection: Unsuitable material: NR (natural rubber, natural latex).
- Hand protection: Recommended glove articles: DIN EN 374.
- Hand protection: DIN EN 374.
- Body protection: Suitable protective clothing: Chemical resistant safety shoes. Chemical

Respiratory protection	: protection clothing. Body protection: Recommended protective clothing articles: ISO 20344. Body protection: Wear protective clothing. Chemical resistant safety shoes. Filtering Half-face mask (DIN EN 149). Suitable respiratory protection apparatus: Filtering Half-face mask (DIN EN 149). Remark: The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits as specified by the manufacturer.
Remark	: Wash hands and face before breaks and after work and take a shower if necessary.
Environmental exposure controls	
Discharge into the environment must be avoided.	

8.3. Additional information

Not available

SECTION 9: Physical and chemical Properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Colour:	Orange
Odour:	Strawberry
Odour threshold:	Not available
PH:	
Melting point/freezing point:	
Initial boiling point and boiling range:	
Flash point:	
Evaporation rate:	
Flammability:	
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	
Vapour density:	
Relative density:	0.2 - 0.5 g/cm3
Solubility(ies):	Partially Soluble
Partition coefficient: n-octanol/water (Log KOC):	
Auto-ignition temperature:	
Decomposition temperature:	
Viscosity:	
Explosive properties:	
Oxidising properties:	

9.2. Other safety information

Not available

SECTION 10: Stability and Reactivity

10.1. Reactivity

No special measures are necessary.

10.2. Chemical stability

The product is stable with storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Danger of explosion.

10.4. Conditions to avoid

Avoid generation of dust. Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Do not expose to temperatures exceeding 50°C/122°F.

10.5. Incompatible materials

Not available

10.6. Hazardous decomposition products

No known hazardous decomposition products.

10.7. Additional information

Not available

SECTION 11: Toxicological information

11.1. Acute oral toxicity

Data for mixture

subendpoint	Operator	Value	Units
LD50	-	12960,	mg/kg bw

Substances

crystalite (CAS: 14464-46-1)

Species : Mouse

Guideline : OECD Guideline 401 (Acute Oral Toxicity)

subendpoint	Operator	Value	Units
LD50	-	2000	mg/kg bw

dipotassium hexafluorotitanate (CAS: 16919-27-0)

Species : Mouse

Guideline : OECD Guideline 401 (Acute Oral Toxicity)

subendpoint	Operator	Value	Units
LD50	-	324	mg/kg bw

11.2. Acute skin toxicity

Data for mixture

Not available

Substances

Not available

11.3. Acute inhalation toxicity

Data for mixture

Not available

Substances

crystalite (CAS: 14464-46-1)

Species : Rat

Guideline : OECD Guideline 403 (Acute Inhalation Toxicity)

subendpoint	Results / Sex	Operator	Value	Units
LC50:	-	-	2.6	mg/L

11.4. Skin corrosion

Data for mixture

Not available

Substances

Not available

11.5. Eye damage

Data for mixture

Not available

Substances

dipotassium hexafluorotitanate (CAS: 16919-27-0)

test Type : In vivo

Species : Rabbit

Guideline : OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conclusion : Corrosive

11.6. Skin sensitisation

Data for mixture

Not available

Substances

Not available

11.7. STOT RE

Data for mixture

Not available

Substances

Not available

11.8. STOT SE

Data for mixture

Not available

Substances

crystalite (CAS: 14464-46-1)

Executive summary

: In 1997, IARC (International Agency for Research on Cancer) concluded that inhaled crystalline silica from occupational sources can cause lung cancer in humans. However, he stressed that not all industrial working environments or all types of crystalline silica should be incriminated (IARC Monographs on the Evaluation of the Carcinogenic Risks of Chemicals to Humans, Silica, Silicates Dust and Organic Fibers, 1997, Vol. [IARC Monographs on Carcinogenic Risk Assessment of Chemicals for Humans, Silica, Silicate Powders and Organic Fibers, 1997, Vol 68, IARC, Lyon, France]). In June 2003, SCOEL (EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect of crystalline silica inhalation in man is silicosis. "There is enough information to conclude that the relative risk of lung cancer is increased in people with silicosis (and apparently not in workers without silicosis exposed to silica powder in quarries and in the environment, Ceramic industry). Therefore, preventing the onset of silicosis will also reduce the risk of cancer ... "(SCOEL SUM Doc 94-final, June 2003). There is a body of evidence corroborating the fact that the increased risk of cancer would not be limited to people already suffering from silicosis. According to the current state of the art, the protection of workers from silicosis can be constantly ensured by compliance with the existing regulatory limits of occupational exposure. Occupational exposure to irritating (total and respirable) powders and respirable crystalline silica should be monitored and controlled.

11.9. Carcinogenicity

Data for mixture

Not available

Substances

Not available

11.10. Reproductive and Developmental Toxicity

Data for mixture

Not available

Substances

Not available

11.11. genotoxicity

Data for mixture

Not available

Substances

Not available

Additional information

No information available.

Substances

Not available

Data for mixture

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to the environment. Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

Substances

dipotassium hexafluorotitanate (CAS: 16919-27-0)

Animals / category : crustacea
 Species : Daphnia magna (Big water flea).
 test Duration : 48
 Unit : h
 Guideline : OECD 203

subendpoint	Value	Units
EC50	48.2	mg/l

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

No data available.

12.7. Additional ecotoxicological information

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal

Properties of waste which render it hazardous: Toxic. Harmful to the environment.

Waste treatment options: Appropriate disposal / Product: Delivery to an approved waste disposal company. Dispose of waste according to applicable legislation.

Waste treatment options: Appropriate disposal / Package: Non-contaminated packages must be recycled or disposed of. Contaminated packing must be completely emptied and can be reused after proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself. Dispose of waste according to applicable legislation.

13.2. Additional information

Not available

SECTION 14: Transport information

14.1. UN number

The product is not hazardous according to the applicable transport regulations (ADR / RID / ADN / IMDG / ICAO / ITA). No data available.

14.2. UN proper shipping name

No data available.

14.3. Transport hazard class(es)

No data available.

14.4. Packing group

No data available.

14.5. Environmental hazards

No data available.

14.6. Special precautions for user

No data available.

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

No data available.

14.8. Additional information

Not available

SECTION 15: Regulatory information

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

EU legislation

Seveso - Directive 2012/18 / EC.

Not available

15.2. Chemical Safety Assessment

No data available.

15.3. Additional information

Not available

SECTION 16: Other information

Creation date: 05/07/2017

Version date: 20/10/2016

Printing date: 05/07/2017

16.1. Indication of changes

Not applicable (first edition of the MSDS).

16.2. Abbreviations and acronyms

ADN / ADN R: Regulations concerning the transport of dangerous substances in barges on the waterways. ADR / RID: European Agreement concerning the International Carriage of Dangerous Goods by Road / Regulations concerning the international carriage of dangerous goods by rail. CAS: Chemical Abstract Service Number. CLP: Classification, labeling and packaging. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods Code. DPD Dangerous Preparation Directive. UN number: United Nations number. No EC: European Commission Number. VPvB: very persistent and very bioaccumulative substances.

16.3. Key literature references and sources for data

No data available.

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure

16.6. Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

16.7. Additional information

Not available

The information given in this Safety Data Sheet is based on our present knowledge and on european and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.