

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 25.07.2023

Version number 2 (replaces version 1)

Revision: 12.06.2023

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

1.1 Product identifier

Trade name Dentstone HXD

Safety data sheet no.: NK PS021

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

The product is intended for industrial or professional use.

Application of the substance / the mixture

Gypsum plaster

Dental plaster for models

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Saint-Gobain Formula

Bowbridge Lane

New Balderton

Newark

Nottinghamshire

NG24 3BZ

UK

Phone: 44 (0) 1636 670200

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1.4 Emergency telephone number:

Austria +43 1 406 43 43 (24 hrs)

Belgium +32 70 245 245 (24 hrs)

Bulgaria +359 2 9154 378/+359 887 435 325 (24 hrs)

China +86 10 660 981 14 (24 hrs)

Czechia (Czech Republic) +420 22 49 192 93 (24 hrs)

Denmark +45 82 12 12 12 (24 hrs)

Finland +358 9 471977 (24 hrs)

France +33 (0)1 40 05 48 48 (24 hrs)

Germany +49 30 192 40 (24 hrs)

Greece +30 21 07 79 37 77 (24 hrs)

Hungary +36 80 20 11 99 (24 hrs)

India +91 112 659 36 77 or +91 112 658 93 91 (24 hrs)

Indonesia +62 813 1082 6879 (24 hrs)

Ireland +353 1 809 2166 (24 hrs)

Morocco +212 537 68 64 64 / 0801 000 180 (24 hrs)

Netherlands +31 (0)30 274 88 88 (24 hrs)

Northern Ireland 844 892 0111 (24 hrs)

Norway +47 22 59 13 00 (24 hrs)

Portugal 808 250 143 (national callers) (24 hrs)

Romania +402 212 106 282 (24 hrs)

Saudi Arabia 937; 800 442 8800 (national callers) (24 hrs)

Spain +34 91 562 0420 (24 hrs)

Switzerland +41 44 251 51 51 (in Switzerland dial 145) (24 hrs)

Thailand 1367, Line ID poisrequest (national callers) +66 (0)220 11084-6 (24 hrs)

Tunisia +216 1 335 500 (24 hrs)

Turkey +90 0312 433 70 01 or 0 800 314 7900 (24 hrs)

UK 844 892 0111 (24 hrs)

USA 1 800 222 1222 (24 hrs)

Vietnam +84 (0)243 869 3731, ext 6821 (08.00-17.00 Monday-Friday)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

This Safety Data Sheet is provided by the supplier on a voluntary basis according to the Article 32 of the Regulation (EC) No 1907/2006 (REACH).

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS No. Description

CAS: 7778-18-9 calcium sulphate, different hydrate levels $\text{CaSO}_4 \times n \text{H}_2\text{O}$ (n = 0; 1/2; 2)

Identification number(s):

EC number: 231-900-3

3.2 Mixtures

Description: Mixture of substances without any hazardous components

Dangerous components:

CAS: 7778-18-9	calcium sulphate, different hydrate levels $\text{CaSO}_4 \times n \text{H}_2\text{O}$	75-100%
EINECS: 231-900-3	(n = 0; 1/2; 2)	
Reg.nr.: 01-2119444918-26-xxxx	substance with a Community workplace exposure limit	

SVHC Void

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

No special measures required.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

After inhalation Supply fresh air; consult doctor in case of complaints.

After skin contact Rinse with warm water.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Rinse liquid should be tempered (20-30°C).

After swallowing Seek medical treatment.

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4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents**

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Use foam, carbon dioxide, dry powder or water fog to extinguish.

5.2 Special hazards arising from the substance or mixture No further relevant information available.**5.3 Advice for firefighters****Protective equipment:** No special measures required.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures** Not required.**6.2 Environmental precautions:** No special measures required.**6.3 Methods and material for containment and cleaning up:** Pick up mechanically.**6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

No special measures required.

Provide suction extractors if dust is formed.

Information about fire - and explosion protection: No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

Information about storage in one common storage facility: Not required.**Further information about storage conditions:** Protect from humidity and water.**7.3 Specific end use(s)**

The product is intended to be used according to point 1.2. No other use is recommended.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

DNELs

CAS: 7778-18-9 calcium sulphate, different hydrate levels CaSO₄ x n H₂O (n = 0; 1/2; 2)

Oral	Derived No Effect Level	1.52 mg/kgxday (consumer systemic long term value) 11.4 mg/kgxday (consumer systemic short term value)
Inhalative	Derived No Effect Level	21.17 mg/m ³ (worker systemic long term value) 5,082 mg/m ³ (worker systemic short term value) 5.29 mg/m ³ (consumer systemic long term value) 3,811 mg/m ³ (consumer systemic short term value)

CAS No. / Designation of material / % / Type / Value / Unit

CAS: 7778-18-9 calcium sulphate, different hydrate levels CaSO₄ x n H₂O (n = 0; 1/2; 2)

AGW (Germany)	Long-term value: 6 A mg/m ³ DFG
LEP (Spain)	Long-term value: 10 mg/m ³ e
TWA (Italy)	Long-term value: 10 mg/m ³ (i)
VLE (Portugal)	Long-term value: 10 mg/m ³ Fração inalável; Sintomas nasais

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Ensure adequate ventilation during use.

Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Hand protection Not required.

Eye/face protection Not required.

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Solid.

Colour:

Green

Odour:

Odourless

Odour threshold:

Not determined.

Melting point/freezing point:

~1,450 °C (DIN ISO 3016)

Boiling point or initial boiling point and boiling range

Undetermined.

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Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH at 20 °C	6-8
Viscosity:	
Kinematic viscosity	Not applicable.
dynamic:	Not applicable.
Solubility	
Water at 20 °C:	2.4 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	2.31-2.97 g/cm ³ (DIN 51757)
	Not applicable.
Relative density	Not determined.
Bulk density:	700-1,100 kg/m ³
Vapour density	Not applicable.
Particle characteristics	
See section 3.	

9.2 Other information

Appearance:	
Form:	Powder
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
EU-VOC (%)	0.0000 %
EU-VOC (g/L)	0.0000 g/l
Solids content:	100.0 %
Change in condition	
Softening point/range	
Oxidising properties	Not determined.
Evaporation rate	Not applicable.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void

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Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Stable at recommended storage conditions

Thermal decomposition / Conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Components	Type	Value	Species
CAS: 7778-18-9 calcium sulphate, different hydrate levels CaSO₄ x n H₂O (n = 0; 1/2; 2)			
Oral	LD50	>2,000 mg/kg	(Rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Not classified as harmful to aquatic life

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Type of test / Effective concentration / Method / Assessment	
CAS: 7778-18-9 calcium sulphate, different hydrate levels CaSO₄ x n H₂O (n = 0; 1/2; 2)	
LC50/48h	79-1,970 mg/l (Daphnia magna)
LC50/96h	>79 mg/l (Oryzias latipes (Japanese medaka))
	79-2,980 mg/l (Fish)
EC50/72h	>79 mg/l (Selenastrum capricornutum (Green algae))

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Behaviour in sewage processing plants:

Type of test / Effective concentration / Method / Assessment	
CAS: 7778-18-9 calcium sulphate, different hydrate levels CaSO₄ x n H₂O (n = 0; 1/2; 2)	
EC 50 (3h)	>1,000 mg/l (Activated sludge)

Additional ecological information:

General notes: Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Dispose of the product in accordance with national and local regulations.

Contact waste processors for recycling information.

European waste catalogue	
10 13 99	wastes not otherwise specified

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Thoroughly shake out sacks.

SECTION 14: Transport information

14.1 UN number or ID number	
ADR, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR, IMDG, IATA	Void

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14.3 Transport hazard class(es)
**ADR, ADN, IMDG, IATA
Class**

Void

**14.4 Packing group
ADR, IMDG, IATA**

Void

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

**14.7 Maritime transport in bulk according to
IMO instruments**

Not applicable.

UN "Model Regulation":

Void

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) (Candidate List, Annexes XIV and XVII)

Regulation (EC) No 1272/2008 (CLP)

Regulation (EU) 2020/878 (amending REACH Annex II on the compilation of safety data sheets)

Labelling according to Regulation (EC) No 1272/2008 cf. section 2**Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is listed.**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

REGULATION (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

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This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

The following list of relevant hazard statements is the full text of hazard statements mentioned elsewhere in this safety data sheet (in particular in the section 3) and is reported as required by the Regulation (EC) No 1907/2006 (REACH), Annex II, and the following amendments (Regulation (EU) 2020/878). The statements mentioned here do not refer to the product itself, but refer to the individual ingredients in the products, and are provided for information.

Department issuing SDS: Technical Services**Contact:**

44 (0) 1636 670230

msds-formula@saint-gobain.com

Version number of previous version: 1**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern (REACH regulation)

vPvB: very Persistent and very Bioaccumulative

*** Data compared to the previous version altered.**

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.

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