

EG-MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)



Version number: 8.0
Replaces version of: 2014-11-06 (7)
Revision: 2017-02-09 First version: 12.11.2003

page 1 of 10
Printing date: 20.12.2022

Setting accelerator

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

- 1.1 Product identifier**
Commercial product name: Setting accelerator
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Relevant identified uses: Chemicals for various applications
- 1.3 Details of the supplier of the safety data sheet**
Manufacturer/Supplier: ERNST HINRICHS Dental GmbH
Street / mailbox: Borsigstr. 1
Country code. / postal code / city: D - 38644 Goslar
Phone: 0 53 21 / 5 06 24
Fax: 0 53 21 / 5 08 81
E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number**
ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 (Mon-Fri. 8 a.m. – 4 p.m.)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**
Classification according to Regulation (EC) No 1272/2008: This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.
Additional information: According to the results of its assessment, this substance is not a PBT or a vPvB.
- 2.2 Label elements**
Labelling according to Regulation (EC) No 1272/2008: not required
- 2.3 Other hazards:** There is no additional information.
Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

- 3.1 Chemical characterisation:** Substances
Name of substance: potassium sulfate
- Identifiers**
CAS number: 7778-80-5
EC number: 231-915-5
Molecular formula: K₂ S O₄
Molar mass: 174.3 g/mol

SECTION 4: First aid measures

- 4.1 Description of first aid measures**
General information: In all cases of doubt, or when symptoms persist, seek medical advice.
After inhalation: Provide fresh air.

EG-MATERIAL SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)



Version number: 8.0
Replaces version of: 2014-11-06 (7)
Revision: 2017-02-09

First version: 12.11.2003

page 2 of 10
Printing date: 20.12.2022

Setting accelerator

After skin contact:	Wash with plenty of soap and water.
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After ingestion:	Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.
Notes for the doctor:	None.
4.2 Most important symptoms and effects, both acute and delayed:	These information are not available.
4.3 Indication of any immediate medical attention and special treatment needed:	None.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing agents:	Water, foam, alcohol resistant foam, fire extinguishing powder, co-ordinate firefighting measures to the fire surroundings
For safety reasons unsuitable extinguishing agents:	Water jet.
5.2 Special hazards arising from the substance or mixture:	Hazardous decomposition products: Section 10.
Hazardous combustion products:	Sulphur dioxide (SO ₂).
5.3 Advice for firefighters	In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.
Special protective equipment for firefighters:	Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	
For non-emergency personnel:	Ventilate affected area. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.
For emergency responders:	Wear breathing apparatus if exposed to vapours/dust/spray/gases.
6.2 Environmental precautions:	Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

EG-MATERIAL SAFETY DATA SHEET
 according to Regulation (EC) No. 1907/2006 (REACH)



Version number: 8.0
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 Revision: 2017-02-09 First version: 12.11.2003

page 3 of 10
 Printing date: 20.12.2022

Setting accelerator

- 6.3 Methods and material for containment and cleaning up:**
- Advices on how to contain a spill:** Take up mechanically.
- Advices on how to clean up a spill:** Take up mechanically.
 Collect spillage.
- Other information relating to spills and releases:** Place in appropriate containers for disposal.
 Ventilate affected area.
- 6.4 Reference to other sections:** Hazardous combustion products: see section 5.
 Personal protective equipment: see section 8.
 Incompatible materials: see section 10.
 Disposal considerations: see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling:**
- Measures to prevent fire as well as aerosol and dust generation:** Use local and general ventilation.
- Specific notes/details:** None.
- Measures to protect the environment:** Avoid release to the environment.
- Advice on general occupational hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use. Preventive skin protection (barrier creams/ointments) is recommended. Remove contaminated clothing and protective equipment before entering eating areas.
- 7.2 Conditions for safe storage, including any incompatibilities Storage:**
- Flammability hazards:** None.
- Incompatible substances or mixtures:** Incompatible materials: see section 10.
- Protect against external exposure, such as:** Heat.
- Consideration of other advice:** Keep away from food, drink and animal feeding stuffs.
- Ventilation requirements:** Provision of sufficient ventilation.
- Packaging compatibilities:** Keep only in original container.
- 7.3 Specific end use(s):** No information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters**
Human health values

Relevant DNELs and other threshold levels				
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	37.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

EG-MATERIAL SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)



Version number: 8.0
Replaces version of: 2014-11-06 (7)
Revision: 2017-02-09

First version: 12.11.2003

page 4 of 10
Printing date: 20.12.2022

Setting accelerator

DNEL	21.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DNEL	11.1 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
DNEL	12.8 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
DNEL	12.8 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Environmental values

Relevant PNECs and other threshold levels

Endpoint	Threshold level	Environmental compartment
PNEC	0.68 mg/l	freshwater
PNEC	0.068 mg/l	marine water
PNEC	10 mg/l	sewage treatment plant (STP)

8.2 Exposure controls

Appropriate engineering controls: General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection: Wear eye/face protection.

Hand protection

Material	Material thickness	Breakthrough times of the glove material
NR: natural rubber, latex	≥ 0,5 mm	>480 minutes (permeation: level 6)
IIR: isobutene-isoprene (butyl) rubber	≥ 0,5 mm	>480 minutes (permeation: level 6)
CR: chloroprene (chlorobutadiene) rubber	≥ 0,5 mm	>480 minutes (permeation: level 6)
PVC: polyvinyl chloride	≥ 0,5 mm	>480 minutes (permeation: level 6)
FKM: fluoro-elastomer	≥ 0,4 mm	>480 minutes (permeation: level 6)
NBR: acrylonitrile-butadiene rubber	≥ 0,35 mm	>480 minutes (permeation: level 6)

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Particulate filter device (EN 143).

Environmental exposure controls:

Use appropriate container to avoid environmental contamination.
Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:

solid

Form:

crystalline

EG-MATERIAL SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)



Version number: 8.0
Replaces version of: 2014-11-06 (7)
Revision: 2017-02-09

First version: 12.11.2003

page 5 of 10
Printing date: 20.12.2022

Setting accelerator

Colour:	colourless
Particle size:	<1,000 µm
Odour:	odourless
Odour threshold:	these information are not available
pH-value:	5.5 - 7.5 (50 g/l, 20 °C)
Change in condition	
Melting point/Melting range:	1,067 °C
Boiling point/Boiling range:	1,689 °C
Flash point:	not applicable
Evaporation rate:	these information are not available
Flammability (solid, gas)	non-combustible
Explosion limits of dust clouds:	not determined
Vapour pressure:	these information are not available
Density:	2.66 g/cm ³
Vapour density:	these information are not available
Bulk density:	800 - 1,400 g/cm ³
Relative density:	these information are not available
Solubility(ies):	
Water solubility:	120 g/l
Partition coefficient:	
n-octanol/water (log KOW):	these information are not available
Auto-ignition temperature:	not relevant (Solid matter)
Relative self-ignition temperature for solids:	these information are not available
Decomposition temperature:	these information are not available
Viscosity	
Kinematic viscosity:	not relevant (solid matter)
Dynamic viscosity:	not relevant (solid matter)
Explosive properties:	not explosive
Oxidising properties:	shall not be classified as oxidising

9.2 Other information: None

SECTION 10: Stability and reactivity

10.1 Reactivity:	This material is not reactive under normal ambient conditions.
10.2 Chemical stability:	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.3 Possibility of hazardous reactions	No known hazardous reactions.
10.4 Conditions to avoid	There are no specific conditions known which have to be avoided.
10.5 Incompatible materials:	Powdered metals.
10.6 Hazardous decomposition products:	Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

EG-MATERIAL SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)



Version number: 8.0
Replaces version of: 2014-11-06 (7)
Revision: 2017-02-09 First version: 12.11.2003

page 6 of 10
Printing date: 20.12.2022

Setting accelerator

SECTION 11: Toxicological information

11.1 Information on toxicological effects: If not otherwise specified the classification is based on: Animal studies; Evidence from any other toxicity tests; Expert judgement (weight of evidence determination).

Classification according to GHS (1272/2008/EC, CLP): This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity: Shall not be classified as acutely toxic (oral).
Shall not be classified as acutely toxic (dermal).

Acute toxicity

Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>2,000 mg/kg	rat		European Chemicals Agency, http://echa.europa.eu/
dermal	LD50	>2,000 mg/kg	rat		European Chemicals Agency, http://echa.europa.eu/

Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation:
Skin sensitisation: Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Respiratory sensitisation: Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity: Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity: Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Reproductive toxicity: Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - single exposure: Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

EG-MATERIAL SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)



Version number: 8.0
Replaces version of: 2014-11-06 (7)
Revision: 2017-02-09 First version: 12.11.2003

page 7 of 10
Printing date: 20.12.2022

Setting accelerator

Specific target organ toxicity - repeated exposure:

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard:

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute):

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

Aquatic toxicity (acute)

Endpoint	Value	Species	Method	Source	Exposure time
LC50	680 mg/l	fathead minnow (pimephales promelas)		European Chemicals Agency, http://echa.europa.eu/	96 h
LC50	720 mg/l	daphnia magna		European Chemicals Agency, http://echa.europa.eu/	48 h
IC50	2,900 mg/l	algae (Desmodesmus subspicatus)		IUCLID	72 h

Aquatic toxicity (chronic)

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

Aquatic toxicity (chronic)

Endpoint	Value	Species	Method	Source	Exposure time
EC50	2,700 mg/l	algae		European Chemicals Agency, http://echa.europa.eu/	18 d

12.2 Persistence and degradability:

Biodegradation:

The study does not need to be conducted because the substance is inorganic.

Persistence:

The study does not need to be conducted because the substance is inorganic.

12.3 Bioaccumulative potential:

Data are not available.

12.4 Mobility in soil:

Data are not available.

12.5 Results of PBT and vPvB assessment:

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Other adverse effects:

Data are not available.

Endocrine disrupting potential:

Not listed.

Remarks:

Water hazard class - WHC (Wassergefährdungsklasse):

1 (Slightly hazardous to water)

EG-MATERIAL SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)



Version number: 8.0
Replaces version of: 2014-11-06 (7)
Revision: 2017-02-09 First version: 12.11.2003

page 8 of 10
Printing date: 20.12.2022

Setting accelerator

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods:** Dispose of contents/container in accordance with local/regional/national/international regulations.
- Sewage disposal-relevant information:** Do not empty into drains.
- Waste treatment of containers/packagings:** Handle contaminated packages in the same way as the substance itself.
- Remarks:** Please consider the relevant national or regional provisions.

SECTION 14: Transport information

- 14.1 UN-Number:** not subject to transport regulations
- 14.2 UN proper shipping name:** -
- 14.3 Transport hazard class(es):** -
- Class:** -
- 14.4 Packing group:** -
- 14.5 Environmental hazards:** -
- 14.6 Special precautions for user:** There is no additional information.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** The cargo is not intended to be carried in bulk.
- 14.8 Information for each of the UN Model Regulations**
- Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN):** Not subject to ADR, RID and ADN.
- International Maritime Dangerous Goods Code (IMDG):** Not subject to IMDG.
- International Civil Aviation Organization (ICAO-IATA/DGR):** Not subject to ICAO-IATA.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Relevant provisions of the European Union (EU)**
- Restrictions according to REACH, Annex XVII** not listed
- List of substances subject to authorisation (REACH, Annex XIV)** not listed

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Revision: 2017-02-09

First version: 12.11.2003

page 9 of 10
Printing date: 20.12.2022

Setting accelerator

Seveso Directive 2012/18/EU (Seveso III)

No.	Dangerous substance / hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II: Not listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR): Not listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD): Not listed.

Regulation 98/2013/EU on the marketing and use of explosives precursors: Not listed.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This SDS has been compiled and is solely intended for this product.

Abbreviations and acronyms:

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code

EG-MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)



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Replaces version of: 2014-11-06 (7)
Revision: 2017-02-09 First version: 12.11.2003

page 10 of 10
Printing date: 20.12.2022

Setting accelerator

MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.
Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).