

SAFETY DATA SHEET

GOREND HBS SPEED-UP

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Compilation date: 18/11/2016

Revision No: 1

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

1.1. Product identifier

Product name: GOREND HBS SPEED-UP

CAS number: 544-17-2

EINECS number: 208-863-7

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

Use of substance / mixture: Chemical for use in construction.

1.3. Details of the supplier of the safety data sheet

Company name: SAS (Europe) Ltd

Cheriton Bishop

Devon

EX6 6JE

United Kingdom

Tel: 01647 24620

Fax: 01647 24020

Email: info@sas-europe.com

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Dam. 1: H318

Most important adverse effects: Causes serious eye damage.

2.2. Label elements

Label elements:

Hazard statements: H318: Causes serious eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor/.

[cont...]

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2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: CALCIUM FORMATE

CAS number: 544-17-2

EINECS number: 208-863-7

Contains: Purity >98%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

Ingestion: Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. Contact physician if larger quantity has been consumed.

Inhalation: Move affected person to fresh air at once. Get medical attention if any discomfort continues. Rinse nose and mouth with water.

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

Skin contact: Non-irritating

Eye contact: Causes serious eye damage.

Ingestion: May cause discomfort if swallowed.

Inhalation: Dust in high concentrations may irritate the respiratory system.

Delayed / immediate effects: Skin sensitisation : Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Test method(s): 406. Testing was carried out using a structural analogue. Germ cell mutagenicity : Genotoxicity - in vitro Bacterial reverse mutation test: Negative. REACH dossier information. Based on available data the classification criteria are not met. Carcinogenicity : Carcinogenicity No evidence of carcinogenicity in animal studies. REACH dossier information. Testing was carried out using a structural analogue. Reproductive toxicity : Reproductive toxicity - fertility Two-generation study - NOAEL 1000 mg/kg, Oral, Rat F1 REACH dossier information. Test method(s): OECD Testing was carried out using a structural analogue. - Sodium formate. Based on available data Reproductive toxicity - development : REACH dossier information. - Weight of evidence. Based on available data the classification criteria are not met. Specific target organ toxicity - repeated exposure : STOT - repeated exposure NOAEL 1000 mg/kg, Oral, Rat REACH dossier information. Test method(s): 28 days , OECDNot classified as a specific target organ toxicant after repeated exposure. No specific target organs are known. Aspiration hazard : Not relevant.

[cont...]

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

Immediate / special treatment: No data available. Treat symptoms.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable protective equipment (see section 8).

6.2. Environmental precautions

Environmental precautions: Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Avoid generation and spreading of dust. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8. Avoid handling which leads to dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in original container. Keep containers tightly closed in a dry, cool and well ventilated place.

Suitable packaging: Must only be kept in original packaging.

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7.3. Specific end use(s)

Specific end use(s): Refer to section 1 for details.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

ECOREND F1 POWERSET ACCELERATOR

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (short term)	337mg/m ³	Workers	Systemic
DNEL	Dermal (short term)	4780mg/kg/day	Workers	Systemic
DNEL	Dermal (short term)	16.7mg/cm ²	Workers	Local
DNEL	Inhalation (short term)	83.2mg/m ³	General Population	Systemic
DNEL	Dermal (short term)	2390mg/kg/day	General Population	Systemic
DNEL	Dermal (long term)	8.3mg/cm ²	General Population	Local
DNEL	Oral (long term)	23.9mg/kg/day	General Population	Systemic
PNEC	Fresh water	2mg/L	-	-
PNEC	Marine water	0.2mg/L	-	-
PNEC	Fresh water sediments (dry basis)	13.4mg/kg	-	-
PNEC	Marine water sediments (dry basis)	1.34mg/kg	-	-
PNEC	STP	2.21mg/L	-	-
PNEC	Soil	1.5mg/kg	-	-

Hazardous ingredients:

CALCIUM FORMATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (short term)	337mg/m ³	Workers	Systemic
DNEL	Dermal (short term)	4780mg/kg/day	Workers	Systemic
DNEL	Dermal (short term)	16.7mg/cm ²	Workers	Local
DNEL	Inhalation (short term)	83.2mg/m ³	General Population	Systemic
DNEL	Dermal (short term)	2390mg/kg/day	General Population	Systemic
DNEL	Dermal (long term)	8.3mg/cm ²	General Population	Local
DNEL	Oral (long term)	23.9mg/kg/day	General Population	Systemic
PNEC	Fresh water	2mg/L	-	-
PNEC	Marine water	0.2mg/L	-	-
PNEC	Fresh water sediments (dry basis)	13.4mg/kg	-	-

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PNEC	Marine water sediments (dry basis)	1.34mg/kg	-	-
PNEC	STP	2.21mg/L	-	-
PNEC	Soil	1.5mg/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required. Use breathing protection in case of insufficient ventilation.

Short term filter device: Filter P2. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.

Eye protection: Wear eye protection. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Skin protection: Ensure that eyewash stations and safety showers are close to the workstation location. Do not smoke in work area. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. When using do not eat, drink or smoke.

Environmental: No data available.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Powder

Colour: White

Odour: Odourless

Evaporation rate: Not applicable.

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: c.17g/100g H₂O @ 20°C

Also soluble in: No data available.

Viscosity test method: Not applicable.

Boiling point/range°C: Not applicable.

Melting point/range°C: >300°C

Flammability limits %: lower: Not applicable.

upper: Not applicable.

Flash point°C: Not applicable.

Part.coeff. n-octanol/water: Log₁₀ K_{ow} <-2.6

Autoflammability°C: 292°C (101kPa @20°C)

Vapour pressure: <0.0009 Pa (20°C)

Relative density: 2.02 @19°C

pH: 6.7 (172g/L)

VOC g/l: Not applicable.

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9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: None known.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	>0.67	mg/l
ORAL	RAT	LD50	>2000	mg/kg

Hazardous ingredients:

CALCIUM FORMATE

DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	>0.67	mg/l
ORAL	RAT	LD50	>2000	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
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Acute toxicity (ac. tox. 3)	-	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Non-irritating

Eye contact: Causes serious eye damage.

Ingestion: May cause discomfort if swallowed.

Inhalation: Dust in high concentrations may irritate the respiratory system.

Delayed / immediate effects: Skin sensitisation : Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Test method(s): 406. Testing was carried out using a structural analogue. Germ cell mutagenicity : Genotoxicity - in vitro Bacterial reverse mutation test: Negative. REACH dossier information. Based on available data the classification criteria are not met. Carcinogenicity : Carcinogenicity No evidence of carcinogenicity in animal studies. REACH dossier information. Testing was carried out using a structural analogue. Reproductive toxicity : Reproductive toxicity - fertility Two-generation study - NOAEL 1000 mg/kg, Oral, Rat F1 REACH dossier information. Test method(s): OECD Testing was carried out using a structural analogue. - Sodium formate. Based on available data Reproductive toxicity - development : REACH dossier information. - Weight of evidence. Based on available data the classification criteria are not met. Specific target organ toxicity - repeated exposure : STOT - repeated exposure NOAEL 1000 mg/kg, Oral, Rat REACH dossier information. Test method(s): 28 days , OECD Not classified as a specific target organ toxicant after repeated exposure. No specific target organs are known. Aspiration hazard : Not relevant.

Other information: No data available.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	>1000	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H EC50	500	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	>1000	mg/l

Hazardous ingredients:

CALCIUM FORMATE

Daphnia magna	48H EC50	>1000	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H EC50	500	mg/l

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ZEBRAFISH (Brachydanio rerio)	96H LC50	>1000	mg/l
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12.2. Persistence and degradability

Persistence and degradability: Readily biodegradable. Testing was carried out using a structural analogue. - Sodium formate.

Biodegradation Water - Degradation 86%: @ 28 days (REACH dossier information).

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation of this product is not expected to occur. Partition coefficient log Pow: < -2.6 REACH dossier information. - Test method(s): OECD 107.

12.4. Mobility in soil

Mobility: Soluble in water. Surface tension 72 mN/m @ (20°C), [1g/L]^{°C} REACH dossier information.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Recovery operations: No information available.

Disposal of packaging: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: n/a

14.2. UN proper shipping name

(CALCIUM FORMATE)

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

[cont...]

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14.6. Special precautions for user

Special precautions: No special precautions.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: Not applicable.

Section 15: Regulatory information

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

Specific regulations: EU legislation : Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). 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 (as amended). Guidance : Workplace Exposure Limits EH40.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H318: Causes serious eye damage.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.