Safety data sheet – working translation

CONCRETE HARDENER

PFP231 • Faber rev. 6 • 09/03/2022

English working translation of the official Dutch Faber SDS, revision 6. Not an official English Faber SDS. National contacts and regulatory information are retained from the Dutch source; they have not been localised or validated by Faber.

Manufacturer and SDS supplier

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Distributor

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REACH Annex II – Regulation (EU) 2020/878 – CLP

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: CONCRETE HARDENER. Code PFP231. Chemical name and synonyms: CONCRETE HARDENER.

1.2 Identified use: water-repellent consolidating impregnant for cement surfaces.

1.3 Supplier: FABER CHIMICA S.R.L., Via Ceresani 10, 60044 Campo D'Olmo – Fabriano (ANCONA), ITALY. Tel. +39 0732 627178; fax +39 0732 22935. Competent person responsible for the SDS: quality@fabersurfacecare.com.

1.4 Emergency contact reproduced from the Dutch source: National Poisons Information Center / University Medical Center Utrecht, PO Box 85500, 3508 GA Utrecht, The Netherlands. Phone +31 88 75 585 61; productnotificatie@umcutrecht.nl. NVIC +31 (0)88 755 8000, exclusively for informing professional medical personnel in cases of acute poisoning. This translated contact is not a local public emergency service.

2. Hazards identification



2.1 The product is classified as hazardous under Regulation (EC) 1272/2008 (CLP), as amended. An SDS is required under Regulation (EU) 2020/878. Further health/environmental information is provided in sections 11 and 12. Eye irritation, category 2: H319. Skin irritation, category 2: H315.

2.2 Labelling under CLP: pictogram GHS07 (exclamation mark). Signal word: Warning. H319 Causes serious eye irritation. H315 Causes skin irritation. P280 Wear protective gloves and eye/face protection. P337+P313 If eye irritation persists: Get medical advice/attention. P264 Wash hands and face thoroughly after handling.

2.3 Based on available data, no PBT/vPvB substances at concentrations ≥0.1%. No substances with endocrine-disrupting properties at concentrations ≥0.1%.

3. Composition/information on ingredients

3.2 Mixture. Contains sodium silicate: 24 ≤ x <25.5%. CAS 1344-09-8; EC 215-687-4; REACH registration 01-2119448725-31. Index number: not specified. Classification: Eye Irrit. 2 H319; Skin Irrit. 2 H315. Full hazard-statement text is given in section 16.

4. First aid measures

4.1 Eyes: remove contact lenses. Immediately rinse with plenty of water for at least 15 minutes, holding eyelids open. If problems persist, seek medical attention. Skin: remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, seek medical attention. Wash contaminated clothing before reuse. Inhalation: move the casualty to fresh air. In case of breathing difficulties, seek medical attention immediately. Ingestion: seek medical attention immediately. Induce vomiting only on medical advice. Give nothing by mouth to an unconscious person or without medical permission.

4.2 No specific information on acute/delayed symptoms and effects is available.

4.3 Immediate medical attention and special treatment: information not available.

5. Firefighting measures

5.1 Suitable extinguishing media: carbon dioxide, foam, powder and water spray. Unsuitable media: none specifically identified.

5.2 Avoid breathing combustion products.

5.3 Cool containers with water jets to prevent product decomposition and the formation of potentially hazardous substances. Always wear complete fire-protective equipment. Collect firefighting water and prevent its entry into drains. Dispose of contaminated extinguishing water and fire residues according to applicable regulations. Equipment: open-circuit self-contained compressed-air breathing apparatus (EN 137), protective clothing (EN 469), protective gloves (EN 659) and firefighter boots (HO A29 or A30).

6. Accidental release measures

6.1 Stop the leak if safe to do so. Wear appropriate protective equipment, including section 8 PPE, to prevent contamination of skin, eyes and clothing. This applies to both operating and emergency personnel.

6.2 Prevent entry into drains, surface water and groundwater.

6.3 Collect the leaked product in a suitable container. Check container compatibility against section 10. Absorb remaining material with an inert absorbent. Ensure adequate air circulation at the spill site. Dispose of contaminated material according to section 13.

6.4 Personal protection and disposal: see sections 8 and 13.

7. Handling and storage

7.1 Read all sections of the SDS before use. Avoid release to the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Store only in the original container. Keep containers closed in a well-ventilated place protected from direct sunlight. Keep away from incompatible materials (section 10).

7.3 Specific end use: information not available.

8. Exposure controls/personal protection

8.1 Regulatory reference: TLV-ACGIH, ACGIH 2022. Sodium silicate: TWA/8 h 2 mg/m³; no STEL/15 min or ppm value specified. PNEC: fresh water 7.5 mg/l; marine water 1 mg/l; intermittent water release 7.5 mg/l; STP microorganisms 348 mg/l. DNEL/DMEL, systemic chronic exposure: consumer oral 0.8 mg/kg/day, inhalation 1.38 mg/m³, dermal 0.8 mg/kg/day; worker inhalation 5.61 mg/m³, dermal 1.59 mg/kg/day. Other cells in the source table are blank.

Legend: (C) CEILING; INHAL inhalable fraction; RESP respirable fraction; THORAC thoracic fraction. VND: identified hazard but no DNEL/PNEC; NEA: no exposure expected; NPI: no hazard identified; LOW/MED/HIGH: low/medium/high hazard.

8.2 Engineering controls take priority over PPE. Provide good workplace ventilation using effective local extraction. Consult chemical suppliers when selecting PPE; PPE must bear CE marking demonstrating compliance. Install an emergency shower and eye/face-wash station. Hands: category III work gloves. Consider compatibility, degradation and permeation time when selecting glove material (EN 374). Test resistance before use with mixtures because it cannot be predicted. Glove service life depends on duration and method of use. Skin: long-sleeved workwear and category II professional safety footwear (Regulation 2016/425; EN ISO 20344). Wash with soap and water after removing clothing. Eyes: tightly fitting safety goggles (EN ISO 16321). Respiratory protection is required if technical controls cannot keep exposure below the applicable limits. The source recommends a type B filter mask, class 1, 2 or 3 selected according to the concentration limit (EN 14387). For odourless substances, where the odour threshold is above the TLV-TWA, and in emergencies, use open-circuit self-contained compressed-air breathing apparatus (EN 137) or a fresh-air hose breathing apparatus (EN 138). Consult EN 529 for selection. Environmental exposure: monitor process emissions, including ventilation emissions, to ensure compliance with environmental protection requirements.

9. Physical and chemical properties

9.1 Physical state: liquid. Colour: colourless. Odour: imperceptible. Melting/freezing point: not available. Initial boiling point: not available. Flammability: non-flammable. Lower/upper explosion limits: not available. Flash point: not available. Auto-ignition temperature: not available. pH 10.5–11.4 at a concentration of 5%. Kinematic viscosity: not available. Solubility: soluble in water. n-Octanol/water partition coefficient: not available. Vapour pressure: not available. Density and/or relative density: 1110–1120 g/l at 20°C. Relative vapour density: not available. Particle characteristics: not applicable.

9.2.1 Information on physical hazard classes: not available. 9.2.2 Other safety characteristics: not available. Values reproduced from the SDS, without substitution by the different TDS values.

10. Stability and reactivity

10.1 No specific reaction hazards with other substances under normal conditions of use. Sodium silicate may react with aluminium, zinc and tin.

10.2 Product and sodium silicate are stable under normal conditions of use and storage.

10.3 No hazardous reactions are expected under normal use/storage conditions. Sodium silicate may react violently with strong acids.

10.4 No specific conditions identified; observe normal precautions for chemicals.

10.5 Incompatible materials: keep sodium silicate away from acids.

10.6 Sodium silicate may produce carbon oxides (as stated in the source).

11. Toxicological information

11.1 Information on hazard classes defined in Regulation (EC) 1272/2008. Metabolism, kinetics, mechanism of action and other information: not available. Likely routes of exposure: not available. Delayed/immediate and chronic effects from short/long exposure: not available. Interactive effects: not available. Acute toxicity: mixture ATE (inhalation, oral and dermal) not classified, no relevant component. Sodium silicate LD50 dermal >5000 mg/kg rat; LD50 oral 3400 mg/kg rat. Skin corrosion/irritation: causes skin irritation. Serious eye damage/eye irritation: causes serious eye irritation. Respiratory/skin sensitisation: does not meet classification criteria; respiratory and skin sensitisation information not available. Germ-cell mutagenicity, carcinogenicity and reproductive toxicity: classification criteria not met. Adverse effects on sexual function/fertility, offspring development and lactation: information not available. STOT single exposure: criteria not met; target organ and route information unavailable. STOT repeated exposure: criteria not met; target organ and route information unavailable. Aspiration hazard: classification criteria not met.

11.2 Based on available data, the product contains no substances listed in the main European lists of potential/suspected endocrine disruptors with human-health effects under assessment.

12. Ecological information

12.1 Sodium silicate: LC50 fish 1108 mg/l/96 h, Brachydanio rerio; EC50 algae/aquatic plants >345.4 mg/l/72 h, Scenedesmus subspicatus.

12.2 Sodium silicate: readily degradable, as stated in the source.

12.3 Bioaccumulative potential: information not available.

12.4 Mobility in soil: information not available.

12.5 Based on available data, no PBT/vPvB substances ≥0.1%.

12.6 Based on available data, no substances included in the main European lists of potential/suspected endocrine disruptors with environmental effects under assessment.

12.7 Other adverse effects: information not available.

13. Disposal considerations

13.1 Reuse if possible. Product residues must be treated as special hazardous waste. The hazard level of waste partly containing this product must be assessed under applicable legislation. Use an authorised waste contractor in compliance with national and local requirements. Contaminated packaging must be sent for recovery or disposal in accordance with national waste-management regulations.

14. Transport information

The product is not considered dangerous under the applicable rules for transport by road (ADR), rail (RID), sea (IMDG Code) or air (IATA).

14.1 UN number or ID number: not applicable.

14.2 UN proper shipping name: not applicable.

14.3 Transport hazard class(es): not applicable.

14.4 Packing group: not applicable.

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.

15. Regulatory information

15.1 Seveso category, Directive 2012/18/EU: none. Restrictions under Annex XVII to Regulation (EC) 1907/2006: product, point 3. Regulation (EU) 2019/1148 on explosives precursors: not applicable. Candidate List substances (REACH Article 59): based on available data, no SVHC substances ≥0.1%. Authorisation under REACH Annex XIV: none. Substances subject to export notification under Regulation (EU) 649/2012: none. Substances subject to the Rotterdam or Stockholm Conventions: none. Health surveillance: the source states that exposed workers do not require medical surveillance if the risk assessment shows only a limited risk to worker safety/health and the measures required under Directive 98/24/EC are applied.

15.2 No chemical safety assessment has been carried out for the mixtures/substances listed in section 3. National information in this translation is retained from the Dutch source and is not an assessment of UK or other national requirements.

16. Other information

Hazard statements cited in sections 2–3: Eye Irrit. 2, eye irritation category 2; Skin Irrit. 2, skin irritation category 2. H319 Causes serious eye irritation. H315 Causes skin irritation.

Glossary: ADR European agreement on carriage of dangerous goods by road; ATE acute toxicity estimate; CAS Chemical Abstracts Service number; EC50 concentration affecting 50% of test populations; EC identification number in ESIS; CLP Regulation (EC) 1272/2008; DNEL derived no-effect level; EmS emergency schedule; GHS globally harmonised classification/labelling system; IATA DGR International Air Transport Association dangerous goods regulations; IC50 concentration immobilising 50% of test populations; IMDG International Maritime Dangerous Goods Code; IMO International Maritime Organization; INDEX identification number in CLP Annex VI; LC50 median lethal concentration; LD50 median lethal dose; OEL occupational exposure level; PBT persistent, bioaccumulative and toxic under REACH; PEC predicted environmental concentration; PEL predicted exposure level; PNEC predicted no-effect concentration; REACH Regulation (EC) 1907/2006; RID international rail dangerous goods regulations; TLV threshold limit value; TLV CEILING concentration never to be exceeded during occupational exposure; TWA time-weighted average exposure limit; TWA STEL short-term exposure limit; VOC volatile organic compound; vPvB very persistent/very bioaccumulative under REACH; WGK German water-hazard classes.

General bibliography: Regulations (EC) 1907/2006 (REACH), 1272/2008 (CLP); Regulation (EU) 2020/878; CLP adaptations (EC) 790/2009 (I), (EU) 286/2011 (II), 618/2012 (III), 487/2013 (IV), 944/2013 (V), 605/2014 (VI), 2015/1221 (VII), 2016/918 (VIII), 2016/1179 (IX), 2017/776 (X), 2018/669 (XI), 2019/521 (XII), delegated Regulation 2018/1480 (XIII); Regulation (EU) 2019/1148; delegated Regulations (EU) 2020/217 (XIV), 2020/1182 (XV), 2021/643 (XVI), 2021/849 (XVII), 2022/692 (XVIII), 2023/707. Further sources: The Merck Index, 10th ed.; Handling Chemical Safety; INRS Fiche Toxicologique; Patty, Industrial Hygiene and Toxicology; N.I. Sax, Dangerous Properties of Industrial Materials, 7th ed., 1989; IFA GESTIS and ECHA websites; SDS-model database of the Italian Ministry of Health and Higher Institute of Health.

User note: information is based on knowledge at the latest revision date. Users must verify suitability and completeness for their specific use. This document does not guarantee specific product properties. Product use is outside the supplier's direct control; users must observe applicable hygiene/safety laws. Liability for improper use is disclaimed. Provide appropriate training to personnel using chemicals.

Classification methods: physical/chemical hazards according to CLP Annex I Part 2; assessment methods in section 9. Health hazards calculated under CLP Annex I Part 3 unless section 11 states otherwise. Environmental hazards calculated under CLP Annex I Part 4 unless section 12 states otherwise. Changes from the previous revision: sections 02 / 11 / 12. Source revision 6, 09/03/2022; printed 22/05/2024; replaces revision 5 dated 25/11/2020. This English working translation has not been validated by Faber.