

SAFETY DATA SHEET

1. IDENTIFICATION THE SUBSTANCE / PREPARATION OF THE COMPANY / UNDERTAKING

Product Name: **Denka Quickset S30**
 Application: Quick Hardening Additives
 Company: Denka Construction Solutions Malaysia Sdn Bhd
 Address: No. 18, Jalan Utas 15/7, Seksyen 15, 40200 Shah Alam, Selangor, Malaysia
 Telephone: 03 – 55108810 Fax: 03 – 55188202

2. HAZARD IDENTIFICATION

A. Hazard Risk Classification

- Health Hazard
 - Skin Corrosion / Irritation: Category 2
 - Serious Eye Damage / Eye Irritation: Category 1
 - Skin Sensitization: Category 1
 - Specific Target Organ Toxicity – Single Exposure: Category 3

B. Label elements including precaution statements.

- Symbol:



- Signal word: Danger
- Hazard Risk Statement

H315 Cause skin irritation.
 H317 May cause an allergic skin reaction
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation

- Precautionary Statement
(Prevention)

P201 Obtain special instruction before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P264 Wash your handling region thoroughly after handling
 P270 Do not eat, drink or smoke when using this product
 P273 Avoid release to the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P281 Use personal protective equipment as required

(Response)

P302 + P352 IF ON SKIN: Gently wash with plenty of soap and water
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332 + P313 If skin irritation occurs. Get medical advice / attention.
P333 + P313 If skin irritation or rash occurs. Get medical advice / attention.
P337 + P313 If eye irritation persists: Get medical advice / attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor / physician
P363 Wash contaminated clothing before reuse

(Storage)

P403 + P233 Store in a well - ventilated place. Keep container tightly closed

(Disposal)

P501 Dispose of contents / container

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No	%
OPC Cement	65997-15-1	60-80
Calcium Aluminate	12005-57-1	5-25
Calcium Sulfate	7778-18-9	5-25

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or EILINCS (European List of New Chemical Substances) or are exempt. Refer to Section 8 for Occupational Exposure Limits.

4. FIRST AID MEASURES

Eyes Speed is essential. Do not rub eyes. Immediately rinse eyes with plenty of fresh water for at least 15 minutes and consult a doctor.
Skin: Immediately wash contaminated area with fresh water. Consult medical treatment if irritation or inflammation developed or persists. Launder contaminated clothing before re-use.
Inhalation: Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen and consult a doctor.
Ingestion: Rinse mouth thoroughly with fresh water. Immediately consult a doctor.

5. FIRE FIGHTING MEASURES

Fire and explosive properties	Non-combustible, and will not form explosive dust clouds.
Extinguishing Media	Not applicable
Special Hazard	The dust may form irritating atmosphere. The product will react exothermically with water. Contaminated water will be strongly alkaline.
Special Fire Fighting Procedure	Fire fighter should wear an approved self-contained breathing apparatus and full protective clothing

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Collect the product into suitable containers avoiding dust formation.

7. HANDLING AND STORAGE

Handling	Use with adequate ventilation and local exhaust. Minimized dust generation and accumulation. Use proper personal protective equipment as indicated in Section 8.
Storage:	Keep in cool, dry place

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits	EU Occupational exposure limits (IOELVs): None UK Occupational exposure limits (WELs): Inhalable dust, 10mg/m ³ ; Respirable dust, 4mg/m ³ Calcium sulfate (8hr TWA): inhalable dust, 10mg/m ³ ; Respirable dust 4mg/m ³
Engineering Control Measures	Use adequate ventilation and local exhaust to keep airborne concentration low. Maintain eye-rinse fountains and quick-drench shower facilities in work area.
Personal Protective Equipment	The need for personal protective equipment should be based on a workplace risk assessment for the particular use. PPE should comply with European Standard.
Respiratory Protection	In case of brief exposure or low pollution use filter respirator. In case of intensive or longer exposure, use self-contained breathing protection.
Hand Protection	Protective gloves – e.g. nitrile rubber, NBR gloves. Consult manufacturer concerning breakthrough times.
Eye protection	Safety spectacles with side shields or goggles with full face shields.
Skin and body protection	Where more extensive contact may occur, wear suitable protective clothing (Eg: apron, sleeves, boots)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Powder
Appearance	Grey
Odour	Odourless
pH	Dissolved product is alkaline. The pH value become 11-13
Melting Point	No data
Boiling Point/Range (°C)	No data
Flash Point	Not relevant
Autoflammability (°C)	No data
Flammability	Nonflammable
Explosive Properties (%)	NA
Vapour Pressure (kPa at 20°C)	Not determined
Evaporation rate	Not relevant
Relative Gravity	2.90 – 3.10 g/cm ³ at 20°C
Water solubility:	Hardly soluble in water
Partion coefficient(n-octanol/water):	log Pow No data
Decomposition temperature	No data
Other data	None

10. STABILITY AND REACTIVITY

Stability:	Stable. Keep dry until use.
Incompatible material and conditions to avoid	Strong acids
Hazardous Decomposition Products:	Reaction with strong acids generates toxic gases (e.g. sulphur oxide)

11. TOXICOLOGICAL INFORMATION

Acute toxicity	No components are classified as harmful. Not expected to cause systemic effects through skin contact.
Corrosive / irritation	Expected to be a severe eye irritant, and irritating to skin. Dust may irritate respiratory system. One component is expected to produce highly alkaline solutions in water. Repeated or prolonged skin contact may cause irritation progressing to a burn.
Sensitisation	No ingredient has been identified as having sensitising properties.

12. ECOLOGICAL INFORMATION

Mobility	The product is partially soluble in water and expected to have a low vapour pressure
Persistence/degradability	Not applicable
Bioaccumulation	Not applicable
Toxicity	Not expected to be toxic to aquatic organism, but may cause harmful changes in pH in water.

13. DISPOSAL CONSIDERATIONS

This product may be suitable for disposal by landfill. Some reduction of hazard can be effected by careful neutralisation with diluted acid. Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations.

Packaging may contain residues of the product and should be treated accordingly.

14. TRANSPORT INFORMATION

ADR / RID	Not regulated
IMDG Code	Not regulated
ADNR	Not regulated
ICAO/IATA	Not regulated

This product is not classified as dangerous good in any transport regulation.

15. REGULATORY INFORMATION

European/ International Regulations

Hazard Symbol	Xi
Risk Phrases	R36/38; Irritating to eyes and skin
Safety Phrases	S25; Avoid contact with eyes S26; In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S37/39; Wear suitable gloves and eye/face protection

EU Legislation:

Dangerous Substances Directive (67/548/EEC)

Dangerous Preparation Directive (99/45/EC)

REACH Regulation (1907/2006)

Chemical Agents Directive (98/24/EC)

Personal Protective Equipment (EC Directive) Regulation SI 1992/3139

Guidance:

Approved Classification and Labelling Guide

Approved Supply List. Information approved for the classification and labelling of substances and preparation dangerous for supply.

16. OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used than for the stated application or applications without seeking advice from Denka Construction Solutions Malaysia Sdn Bhd.

If this product has been purchased to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described to this sheet and of any precautions which should be taken. This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

SDS: Denka Quickset S30

Date Issued: 29/02/2024

Revision: 04



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