

Ref: Z9 - STOP DUST

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY:

- 1.1 Product Name:** **STOP DUST**
- 1.2 Applications:** Penetrates & hardens exposed concrete surfaces
- 1.3 Supplier:** Palace Chemicals Ltd; Speke Hall Industrial Estate; Speke; Liverpool; L24 1YA
Tel: 0151 486 6101; Fax 0151 448 1982
e-mail: sales@palacechemicals.co.uk; web: www.palacechemicals.co.uk
- 1.4 Emergency Telephone No.** Tel: 0151 486 6101 – Mon-Fri: 0800 - 1800

2. HAZARDS IDENTIFICATION:

- 2.1 Classification: (EC 1272/2008)**
- Eye Dam. H318;**
Skin Irrit. 2:H315



SIGNAL WORD

DANGER

- 2.2 Label elements:**
- Hazard statements:** H315 Causes severe skin burns and eye damage
H319 Causes serious eye damage
- Precautionary Statements:** P321: Specific treatment (see information on this label).
P362: Take off contaminated clothing and wash before reuse.
P103: Read label before use.
P102: Keep out of reach of children.
P264: Wash hands thoroughly after handling.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
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, NHS Direct or a doctor.
P332+313: If skin irritation occurs: Get medical advice.

2.3 Other hazards:

3. COMPOSITION / INFORMATION ON INGREDIENTS:

3.2 Mixture:

Name:	CAS No.:	EC No.:	Concentration:	Classification:
Sodium Hydroxide	1310-73-2	215-185-5	<1.0%	Skin Corr. 1A – H314
Sodium Silicate	1344-09-8	215-687-4	10.0% - 20.0% w/w	Eye Irrit 1; H318; Skin Irrit 1; H314;

4. FIRST AID MEASURES:

4.1 Description of measures:

EYE CONTACT: Remove contact lenses and irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek immediate medical attention & remove any particles with a cotton wool bud.



INHALATION: Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention. Do not use mouth to mouth ventilation. Obtain immediate medical assistance.

SKIN CONTACT: Wash off skin immediately with water. Remove contaminated clothing and launder regularly. Where irritation to skin is apparent seek prompt medical attention.



INGESTION: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show data sheet.



- 4.2 Acute & Chronic symptoms:**
- Inhalation:** - Corrosive to respiratory system
 - Symptoms: Breathing difficulties. Cough, chemical pneumonitis, pulmonary oedema
 - Repeated or prolonged exposure: Risk of sore throat, nose bleeds, chronic bronchitis
 - Skin contact** - Causes severe burns.
 - Symptoms: Redness, swelling of tissue, burn.
 - Eye contact** - Causes severe burns.
 - Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
 - May cause permanent eye injury.
 - Symptoms: Redness, lachrymation, swelling of tissue, burn.
 - Ingestion** - Severe burns of the mouth and throat, as well as danger of perforation of the Oesophagus and the stomach.
 - Symptoms: Nausea, abdominal pain, bloody vomiting, diarrhoea, suffocation, cough, Severe shortness of breath.
- 4.3 Immediate medical attention:** Speed is essential. Always obtain immediate medical attention.

5. FIRE FIGHTING MEASURES:

- 5.1 Extinguishing media:** This product is not flammable
- 5.2 Combustion Hazards:** Polypropylene bottle may release noxious fumes (CO/CO₂) under combustion. Product may attack metals liberating hydrogen gas. Steam liberated on contact with water will produce noxious, irritating fumes.
- 5.3 Advice for fire-fighters:** Fire fighters should wear full protective clothing and self-contained breathing apparatus with support of chemical shower facilities for immediate wash down after contact.

6. ACCIDENTAL RELEASE MEASURES:

- 6.1 Personal protection:** Wear impermeable PVC overalls, aprons, rubber boots and supply respiratory protective equipment when there is a risk of noxious vapours due to high temperatures.
- 6.2 Environmental precautions:** Contain liquid and scrape up into a sealable container and then wash away fine residues with excess volumes of water ensuring complete and effective dilution.
- 6.3 Spill removal methods:** Scrape up and re-seal. Wash minor surface residues with water into general drains. Mark containers for disposal as special waste.
- 6.4 References to other sections:** See section 10 for disposal & Section 8 for exposure control

7. HANDLING & STORAGE:

- 7.1 Safe handling precautions:** Use in well ventilated areas. Always avoid contact with skin & eyes and ensure nearby provision of shower and eye wash equipment in the event of accidental contact.
- 7.2 (a) Safe storage conditions:** Store in well-sealed, clearly marked containers. Keep out of reach of children in a cool, dry & well-ventilated environment preferably within a lockable metal cabinet. Avoid storage outdoors or where there is a risk of contact with moisture or excessive humidity.
- 7.2 (b) Incompatible materials:** Use only in accordance with instructions shown on the container and do not transfer contents to secondary containers made from zinc, tin or aluminium or any associated alloys. Avoid direct contact with strong acids.
- 7.3 Specific end uses:** For use only as directed in full compliance with the instructions provided.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

8.1 Control parameters			
Substance:	8 hour exposure limit	15 minute exposure limit	Source. Type
Sodium Hydroxide	N/A	STEL – 2mg / M3	WEL
DNEL's - (Derived No effect levels) for workers:			
Exposure pattern:	Route	DNEL	Dose descriptor
Acute systemic effects -	Dermal	6.6mg/kg/day	Worker
Acute systemic effects -	Inhalation	47 mg/kg/day	Worker
Acute Local effects -	Dermal	6.6mg/kg/day	Worker
Acute Local effects -	Inhalation	47 mg/kg/day	Worker
Long term systemic effects -	Dermal	4.0 mg/kg/day	Consumer
Long term systemic effects -	Inhalation	4.0 mg/kg/day	Consumer
Long term local effects -	Dermal	10 mg/kg/day	Consumer
Long term local effects -	Inhalation	10 mg/kg/day	Consumer
PNEC's - Predicted No effect concentration (Environment):			
Compartment:	PNEC	Dose Descriptor	
Fresh water -	4.2mg/ltr		
Sewage treatment -	10.0 mg/ltr		

8.2 Exposure controls:

Respiratory protection: Will be required if the product's application risks in any way the formation of a spray mist. Ensure this is carried out in outdoor areas with good ventilation wherever possible



Hand protection: Hand protection is advised by wearing 17" long elbow length heavy duty natural rubber gloves or gauntlets approved to EN 374 & EN 420 with a BTT rating of > 8 hrs for 50% caustic sol'n.



Eye protection: Chemical goggles to BS 2092 Goggles should be worn for all applications to help prevent accidental face/eye contact. The use of an equivalent rated chemical visor may also be considered to avoid facial splashes



Skin protection: A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately. Elasticated wristbands & anklets overlapping safety boots & gloves are also advised.



9. PHYSICAL & CHEMICAL PROPERTIES:

<p>Appearance: Clear liquid</p> <p>Odour: none</p> <p>Odour threshold: Low</p> <p>pH: 12.0 - 13.0</p> <p>Flash point: n/a</p> <p>Melting point: -15°C</p> <p>Boiling point: >100°C</p> <p>Evaporation rate: n/a</p> <p>Upper/Lower Flam limits: n/a</p> <p>Vapour pressure: n/a</p> <p>Vapour density: As water</p>	<p>Relative density: 1.22 +/- 0.02 kg/litre</p> <p>Water solubility: Complete</p> <p>Solubility in oils: n/a</p> <p>Partition coefficient (Kow): n/d</p> <p>Auto-ignition temperature: n/a</p> <p>Decomposition temperature: >350°C</p> <p>Evaporation rate: As water</p> <p>Viscosity: 250 – 500 mPa.s</p> <p>Explosive properties: n/a</p> <p>Oxidising properties: Avoid contact with acids</p> <p>Particle size: n/a</p>
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10. STABILITY & REACTIVITY:

<p>10.1 Conditions to avoid: Strong acids</p> <p>10.2 Incompatible Materials: Zinc, aluminium</p> <p>10.3 Decomposition hazards: n/d</p>	<p>10.4 Reactivity: Stable under normal use</p> <p>10.5 Chemical reactivity: Strong acids & aluminium</p> <p>10.6 Risk of hazardous reaction: Only with strong acids</p>
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11. TOXICOLOGICAL INFORMATION:

11.1 Information on toxicological effects: This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its' major components.

Routes of exposure:	Skin, eye & inhalation	Skin Corrosivity / Irritation:	Causes severe burns
Eye damage/irritation:	Risk of permanent corneal damage	Respiratory/skin sensitisation:	With prolonged contact
Reproductive toxicity:	LD50 Rat: >2500mg/kg	Germ cell Mutagenicity:	n/a
STOT single exposure:	Permanent damage to mucous membranes	Carcinogenicity:	n/a
STOT repeat exposure:	Severe skin damage & dermatitis	Aspiration hazard:	n/a

12. ECOLOGICAL INFORMATION:

12.1 Ecotoxicity:	High concentrations will injure aquatic life due to high PH level.	12.4 Mobility in soil:	Water soluble so highly mobile
12.2 Bio-accumulative potential:	Negligible	12.5 PBT and vPvB result:	Nil
12.3 Persistence & degradability:	Readily biodegradable	12.6 Other effects:	n/d

13. DISPOSAL CONSIDERATIONS:

13.1 Waste treatment Methods: Waste product to b treated as controlled waste in accordance with local authority regulations. Any absorbents used for clearing up soils should be disposed of using waste code 15 02 02, for absorbents contaminated by dangerous substances.

14. TRANSPORT INFORMATION:

Not classified as hazardous when transported by Road, Sea & Air

Regulatory Code (Land, Sea & Air):	ADR	IMDG	ICAO
14.1 UN No.:			
14.2 Proper shipping name:			
14.3 ADR Packing Group:			
14.4 Transport Hazard Class:			
14.5 Environmental hazards:			
14.6 Special user precautions:			
14.7 EAC code:			

15. REGULATORY INFORMATION:

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

All components are listed as existing substances in Europe

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UK Regulatory References:

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Environmental Listing - Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980.

Statutory Instruments:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice Classification and Labelling of Substances and Preparations Dangerous for Supply.

**Guidance Notes:**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation:

Dangerous Substance Directive 67/548/EEC.

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations:

Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

Authorisations (Title VII Regulation 1907/2006) - No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006) - No specific restrictions of use are noted for this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

16. OTHER INFORMATION:

Last revision date: 18th May 2015

SDS No.: 029

List of abbreviations used in this SDS:

CAS	Chemical abstracts service
CLP	Classification, labelling & packaging regulation (EC) No. 1272/2008
DSD	Dangerous substances Directive 67/548/EEC
DPD	Dangerous Products Directive 1999/45/EC
PBT	Persistent, Bio-accumulative & Toxic
REACH	Registration, Evaluation, Authorisation & Restriction of Chemicals Regulation (EC) 1907/2006
vPvB	Very Persistent, very Bio-accumulative

References:**Classification methods:**

H Phrases in section 3: H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage

Training for workers: Employees should receive appropriate training in all aspects of the safe handling and control of this product for use at work

Disclaimer: The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.