

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT NAME: CPD HARDCURE

MANUFACTURER/SUPPLIER: CPD Construction Products
 219 Connie Crescent, Unit #13
 Concord, Ontario Canada L4K 1L4

24 HOUR EMERGENCY NUMBER: CANUTEC: (613) 996-6666

APPLICATION AND USE: Concrete floor hardener. Product is also used to dust-proof concrete floors.

PRODUCT DESCRIPTION: Solution of Sodium Silicate in water.

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Skin irritation -Category 3, Serious eye irritation -Category 2



SIGNAL WORD **WARNING**

HAZARD STATEMENTS H303 May be harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

PRECAUTIONARY STATEMENTS
 PREVENTION P102 Keep out of reach of children.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P261 Avoid breathing mist/ spray.
 P264 Wash hands thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.

RESPONSE P302+P352 IF ON SKIN: wash with plenty of soap and water.
 P304+P340 IF INHALLED: Remove person to fresh air and keep comfortable for breathing.
 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.
 P362 Take off contaminated clothing and wash before reuse.
 P337+P313 If eye irritation persists: Get medical advice/ attention.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	C.A.S. #	LD/50, Route, Species	LC/50, Route, Species
Silicic Acid, Sodium Salt: Sodium Silicate	10-30	1344-09-8	1960 mg/Kg (Oral-Rat) > 4640 mg/ Kg (Dermal-Rabbit)	Not Established

SECTION 4 : FIRST-AID MEASURES

FIRST-AID MEASURES

EYE CONTACT Flush eyes promptly with plenty of running water, continuing at least 15 minutes with eyelids held open. Get medical attention if eye irritation occurs.

SKIN CONTACT Remove contaminated clothing. Wash with plenty of running water. Get medical attention if irritation persists.

INHALATION Avoid breathing mist. May cause respiratory irritation. If irritation occurs, move to a fresh air environment. Seek medical attention if irritation continues.

INGESTION Low ingestion hazard. May cause nausea. Drink large volumes of water. Seek medical attention if symptoms develop.

SYMPTOMS AND EFFECTS Mild skin, eye or respiratory tract irritation, nausea or vomiting upon ingestion.

SAFETY DATA SHEET

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Use dry chemical, carbon dioxide or appropriate foam.
UNSUITABLE EXTINGUISHING MEDIA	No information available.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE/ MIXTURE	Product is non-flammable and non-combustible. Under normal conditions of use, this product will not cause or support fire.
HAZARDOUS COMBUSTION PRODUCTS	Hydrogen, ammonia gas.
FIRE-FIGHTERS PROTECTIVE EQUIPMENT ...	In a fire wear full protective gear including a self-contained breathing apparatus.
SPECIAL FIRE-FIGHTING PROCEDURES	None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear appropriate protective equipment.
ENVIRONMENTAL PRECAUTIONS	Prevent entry into sewers or streams, dike if needed. Consult local authorities.
CLEAN-UP METHODS	Absorb with an inert dry material and place in an appropriate waste disposal container. Isolate hazard area and restrict access. Stop leak only if safe to do so. Prevent spilled material from entering sewers, confined spaces, drains, or waterways. Neutralize contamination area and flush with large quantities of water. Spilled material may cause floors and contact surfaces to become slippery.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid creating and inhaling dust. Avoid contact with skin.
CONDITIONS FOR SAFE STORAGE	Store in a cool, dry and well-ventilated area. Do not store in metal containers. Protect from freezing. (min/max: 5/30°C). Flammable hydrogen gas may be produced on contact with aluminium, tin, lead and zinc.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
SILICIC ACID; SODIUM SILICATE	2 mg/m ³ ceiling (NaOH)	2 mg/m ³ ceiling (NaOH)
ENGINEERING CONTROLS:		
OTHER/TYPE	General room ventilation might be required to maintain operator comfort under normal conditions of use. Portable eyewash fountain and a safety shower should be available to the work area vicinity.	
PROTECTIVE EQUIPMENT:		
EYE / TYPE	Wear chemical splash goggles when handling this product.	
RESPIRATORY PROTECTION.....	For operations where inhalation exposure can occur, a NIOSH approved mist respirator may be necessary.	
GLOVES/TYPE	Wear suitable gloves, e.g., PVC or nitrile rubber.	
CLOTHING/TYPE	Use a lab coat or apron as necessary to minimize skin contact.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE.....	Clear colourless to slightly hazy low viscosity liquid
ODOUR	None
pH LEVEL	10.0 @ 21°C (69.8°F)
FREEZING POINT	< 0°C (32°F)
BOILING POINT	> 100°C (>212°F)
AUTOIGNITION TEMPERATURE	Not applicable
FLASH POINT	Not applicable
VAPOUR PRESSURE (mmHg @ 20°C (68°F) ..	Not available
SPECIFIC GRAVITY @ 20°C (68°F)	1.11
SOLUBILITY IN WATER	Complete
EVAPORATION RATE (N-BuAc=1).....	Not applicable
V.O.C. CONTENT	0 grams/ L

SAFETY DATA SHEET

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	No data available.
CHEMICAL STABILITY	The product is chemically stable.
POSSIBLE HAZARDOUS REACTIONS	Hazardous polymerization will not occur.
CONDITIONS TO AVOID	No data available.
INCOMPATIBLE MATERIALS	Avoid contamination with all acids. Product gels and generates heat when mixed with acids. May react with ammonium salts resulting in evolution of ammonia gas.
HAZARDOUS DECOMPOSITION PRODUCTS:	Hydrogen, ammonia gas.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY (LD50)	Refer to Section 3.
CARCINOGENICITY OF MATERIAL	This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.
TERATOGENICITY	Not available.
MUTAGENICITY	Not available.
REPRODUCTIVE EFFECTS	Not available.
ROUTES OF EXPOSURE:	SYMPTOMS AND EFFECTS:
EYE CONTACT	Irritating.
SKIN CONTACT	Frequent or prolonged contact may irritate the skin, low toxicity.
INHALLATION	Nose and throat mucosal irritation.
INGESTION	Stomach/ intestinal disorder, nausea.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife. Keep out of waterways.
PERSISTENCE AND DEGRADABILITY	No data available.
BIOACCUMULATIVE POTENTIAL	No data available.
MOBILITY IN THE SOIL	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	Spilled material and water rinses waste must be disposed of in accordance with current, local, provincial and federal regulations. Thoroughly dilute with water before flushing into sewer.
WASTE DISPOSAL	Empty containers of this product can be disposed of as normal garbage.

SECTION 14: TRANSPORTATION INFORMATION

TDG CLASSIFICATION	Not regulated.
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SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION	D2B
CPR (CANADA) COMPLIANCE	Meets all requirements.

SECTION 16: OTHER INFORMATION

ACGIH	American Confederation of Governmental Industrial Hygienists
IARC.....	International Agency for Research on Cancer
NTP.....	National Toxicology Program
STEL	Short Term Exposure Limit
PEL	Permissible Exposure Limit
TLV-TWA	Threshold Limit Value - Time-Weighted Average
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
MSHA	Mine Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980



SDS-57
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SAFETY DATA SHEET

Page 4

CPR	Controlled Products Regulations
CAS	Chemical Abstracts Service
PPE	Personal Protection Equipment
N/A	Not available

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