SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s):	INSTANT POWDER KEGS		
Product Code(s):	PK1, PK6, PK12		
Uses:	Non-acid coil cleaner.		
Company:	Controlled Release Technologies, Inc.		
Address:	1016 Industry Drive; Shelby, NC 28152; USA		
Telephone Number:	(704) 487-0878	Fax Number:	(704) 487-0877
Emergency Telephone Number:	ChemTel Inc. 1- (800) 255-3924; + 01 (813) 248-0585 (International)		
Date Issued:	April 30, 2015	Date Revised:	August 2, 2018

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification: **DANGER**
Skin Irritation (Category 1)

GHS Hazard Statements: Causes severe skin burns and eye damage

GHS Precautionary Statements:

Prevention:

Do not breathe dusts.

Wash hands/skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

Immediately call a poison center/doctor/ hospital.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/container in accordance

SECTION 2 HAZARDS IDENTIFICATION

with local/regional/national/international regulations.

GHS Assessment: Approximately 0% of this mixture consists of ingredient(s) of unknown acute toxicity.

Approximately 0% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Sodium hydroxide	1310-73-2	215-185-5	70 - 80%
Inorganic salt	Proprietary	---	10 - 20%
Sucrose	57-50-1	200-334-9	1 - 5%

Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.

First Aid - Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately if irritation or rash develops and/or persists. Wash contaminated clothing before reuse.

First Aid - Ingestion: If swallowed and feel unwell, call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Important Symptoms / Effects – Acute and Delayed: Tissue redness/irritation, tissue ulceration or burns, nausea.

Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Specific Hazards: This product is not flammable. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.

Protective equipment and procedures for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

Additional Advice: None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Sweep up spilled material and transfer into suitable containers for recovery or disposal. Finally flush area with water.
Personal Precautions:	Wear suitable protective clothing.
Environmental Precautions:	Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 7 HANDLING AND STORAGE

Handling:	Wear appropriate personal protection (See Section 8) when handling this material. The work area must be equipped with a safety shower and eye wash station. If exposed to the solid, avoid contact with skin and eyes. Wash thoroughly after handling.
Storage:	Keep container(s) tightly closed. Use and store this material at temperatures between 15.5ºC and 26.7ºC (60-80ºF) away from heat, direct sunlight and hot metal surfaces. Keep away from any incompatible materials (see Section 10).
Additional Advice:	Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Standards:	Exposure limits are listed below, if they exist.
Sodium hydroxide:	ACGIH: 2 mg/m3 (ceiling). OSHA PEL: 2 mg/m3 TWA.
Inorganic salt:	(as Particulates not otherwise regulated) OSHA PEL: 15 mg/m3 TWA (total). OSHA PEL: 5 mg/m3 TWA (respirable fraction).
Sucrose:	ACGIH TLV: 10 mg/m3 TWA. OSHA PEL: 5 mg/m3 TWA (respirable). OSHA PEL: 15 mg/m3 TWA (total).
Engineering Control Measures:	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
Respiratory Protection:	A NIOSH certified air purifying respirator with suitable particulate filtering capability may be used under conditions where airborne concentrations are expected to exceed exposure limits.
Hand Protection:	The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability).
Eye Protection:	Approved eye protection (safety glasses with side-shields or goggles) to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
Body Protection:	Impervious clothing should be worn as needed to prevent skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Color:	White with blue specs
Odor:	Characteristic

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Odor Threshold:	Not available.
pH:	12.4
Melting Point/Range (ºC/ºF):	Not available.
Boiling Point/Range (ºC/ºF):	Not available.
Flash Point (PMCC) (ºC/ºF):	Not flammable.
Evaporation Rate:	Not available.
Flammability / Explosivity Limits in Air (%):	Not available.
Vapor Pressure:	Negligible (< 1 mmHg)
Vapor Density (Air = 1):	Not available.
Relative Density:	1.8 g/cm3 (25ºC)
Solubility in Water:	Completely soluble.
Partition Coefficient:	Not available.
Autoignition Temperature (ºC/ºF):	Not available.
Decomposition Temperature (ºC/ºF):	Not available.
Viscosity:	Not available.
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	ca. 0 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Product will not undergo additional reaction.
Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat.
Incompatibilities:	Oxidizing agents, strong acids, metals. Can evolve significant heat, if added to water.
Hazardous Decomposition Products:	Oxides of carbon, oxides of sulfur, metal oxides aromatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity:	This product is not expected to be appreciably toxic. (Sodium hydroxide) No data. (Inorganic salt) Oral LD50 (rat) >4000 mg/kg; Inhalation LC50 (rat) >7.74 mg/l (Sucrose) Oral LD50 (rat) 29,700 mg/kg
Skin Corrosion / Irritation:	The product is expected to be corrosive to the skin. (Sodium hydroxide) Corrosive to skin. (Inorganic salt) Slightly irritating to the skin (rabbit). (Sucrose) No data.
Serious Eye Damage / Irritation:	The product is expected to be corrosive to the eyes. (Sodium hydroxide) Corrosive to eyes. (Inorganic salt) Irritating to the eyes (rabbit)

SECTION 11 TOXICOLOGICAL INFORMATION

	(Sucrose) Non-irritating to eye (rabbit).
Respiratory or Skin Sensitization:	The product is not expected to be dermally sensitizing. (Sodium hydroxide) No data. (Inorganic salt) No data. (Sucrose) No data.
Mutagenicity:	This product is not expected to be mutagenic. (Sodium hydroxide) Negative cell transformation in Syrian hamster embryo cells (Inorganic salt) No evidence of mutagenicity (Ames). (Sucrose) No significant increase in mutant frequency was observed.
Carcinogenicity:	This product is not expected to be carcinogenic. (Sodium hydroxide) No data. (Inorganic salt) Exposed animals did not have a significant increase in the number of tumors. (Sucrose) Not classifiable as a human carcinogen (ACGIH).
Reproductive / Developmental Toxicity:	This product is not expected to be developmentally harmful. (Sodium hydroxide) No data. (Inorganic salt) Did not affect implantation nor the survival of dams and fetuses. Orally administered animals did not show teratogenic effects. (Sucrose) Skeletal changes were noted in guinea pigs fed 5-10 g/kg in latter half of pregnacy. No adverse maternal or neonatal effects were observed in rats on days 8 through 12 of gestation.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	(Sodium hydroxide) No data. (Inorganic salt) No data. (Sucrose) No data.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure:	(Sodium hydroxide) No data. (Inorganic salt) No data. (Sucrose) No data.
Aspiration Hazard:	This product is not expected to be an aspiration hazard.
Additional Information:	None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity:	This product is not expected to be appreciably toxic to aquatic species. (Sodium hydroxide) LC100 (Common Carp) 180 ppm/24 hr @ 25C (Inorganic salt) LC50 (Rainbow trout) 7700 mg/l/96 hr; LC50 (Daphnia magna) 1640 mg/l/48 hr (Sucrose) Chronic toxicity to fish is estimated to be 5900 g/l.
Mobility:	(Sodium hydroxide) No data. (Inorganic salt) No data. (Sucrose) No data.
Persistence/Degradability:	(Sodium hydroxide) Not biodegradable (Inorganic salt) Biodegradation is not significant for inorganic salts. (Sucrose) No data.
Bioaccumulation:	(Sodium hydroxide) No data. (Inorganic salt) No data. (Sucrose) An estimated BCF of 3.2 suggests the potential for bioconcentration in aquatic organisms is low.

SECTION 12 ECOLOGICAL INFORMATION

Other adverse effects: None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions:	Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.
Product Disposal:	Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.
Container Disposal:	Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

SECTION 14 TRANSPORT INFORMATION

DOT Proper Shipping Name:	Sodium hydroxide, solid
UN Number:	UN1823
UN Class:	8
UN Packaging Group:	II
Reportable Quantity:	1000 pounds (Sodium hydroxide)
Marine Pollutant:	None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Consult current IATA Regulations prior to shipping by air.

SECTION 15 REGULATORY INFORMATION

US Toxic Substance Control Act:	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian Domestic Substance List:	All components of this product are listed on the Canadian Domestic List.
EU Existing Inventory of Chemical Substances:	One or more component(s) of this product are not in compliance with the inventory listing requirements of the E.U. Existing Inventory of Chemical Substances (EINECS). One or more component(s) of this product have not been pre-listed under REACh. Limited quantities may be permitted.
TSCA Sec.12(b) Export Notification:	This product does not contain a chemical at or above de minimis concentrations which requires reporting.
Canadian WHMIS Classification:	E This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.
Massachusetts Right-To-Know:	This product contains materials subject to disclosure under the Massachusetts' Right-To-Know Law: - Sodium hydroxide - Sucrose (dust)
New Jersey Right-To-Know:	This product contains materials subject to disclosure under the New

SECTION 15 REGULATORY INFORMATION

	Jersey's Right-To-Know Law: - Sodium hydroxide (1706)
Pennsylvania Right-To-Know:	This product contains materials subject to disclosure under the Pennsylvania's Right-To-Know Law: - Sodium hydroxide - Sucrose
California Proposition 65:	This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.
SARA TITLE III-Section 311/312 Categorization (40 CFR 370):	Immediate (acute) hazard
SARA TITLE III-Section 313 (40 CFR 372):	This product does not contain materials which are listed in Section 313 at or above de minimis concentrations.
CERCLA Hazardous Substance (40 CFR 302)	This product contains materials subject to reporting under CERCLA and Section 304 of EPCRA: - Sodium hydroxide (1000 pounds)
Water Hazard Class (WGK):	This product is slightly water-endangering (WGK=1).

Other Chemical Inventories:		
	Australia (AICS):	One or more component(s) not listed.
	China (IECSC):	One or more component(s) not listed.
	Japan (ENCS):	One or more component(s) not listed.
	Korea (KCI):	One or more component(s) not listed.
	Philippines (PICCS):	One or more component(s) not listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH:	3		
NFPA Rating - FIRE:	0		
NFPA Rating - REACTIVITY:	1		
NFPA Rating - SPECIAL:	NONE		
SDS Date Issued:	April 30, 2015		
SDS Current Version:	1.1	Version Date:	August 2, 2018

SDS Revision History:
v1.0 Initial version.
v1.1 Company logo changed.

Abbreviations:

GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
CAS#:	Chemical Abstract Services Number
ACGIH:	American Conference of Governmental Industrial Hygienists
OSHA:	Occupational Safety and Health Administration
NFPA:	National Fire Protection Association
DOT:	US Department of Transportation
RCRA:	US Resource Conservation and Recovery Act
TLV:	Threshold Limit Value
TWA:	Time-Weighted Average
PEL:	Permissible Exposure Limit
STEL:	Short Term Exposure Limit
WEEL:	Workplace Environmental Exposure Levels
AIHA:	American Industrial Hygiene Association
NTP:	National Toxicology Program
IARC:	International Agency for Research on Cancer
R:	Risk

SECTION 16 OTHER INFORMATION

S:	Safety
LD50:	Lethal Dose 50%
LC50:	Lethal Concentration 50%
EC50:	Effective Concentration 50%
BCF	Bioconcentration Factor
BOD:	Biological Oxygen Demand
Koc:	Soil Organic Carbon Partition Coefficient.
Tlm:	Median Tolerance Limit

Key References:

United States National Library of Medicine's TOXNET
Patty's Toxicology, 5th Edition
European Commission's Institute for Health and Consumer Protection
American Conference of Governmental Industrial Hygienists
International Agency for Research on Cancer
United States National Toxicology Program
United States Occupational Safety and Health Administration
United States Department of Transportation
Supplier Material Safety Data Sheets

Disclaimer:

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Prepared by:

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