SAFETY DATA SHEET

COILSHOT-HD®
HVAC Coil Cleaner

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
Product name: **COILSHOT-HD®**
Product code(s): SC-CS-TABS-HD
Synonyms: Alkaline solid

1.2 Relevant identified uses of the substance or mixture and uses advised against
General use: Heavy duty HVAC coil cleaner
Uses advised against: No uses advised against

1.3 Details of the supplier and of the safety data sheet
Manufacturer
SpeedClean
PO Box 110301
Stamford, CT 06911-0301 USA
Toll free: +1-800-700-3540

1.4 Emergency telephone number: **Chemtrec (24 hours) +1-800-424-9300**

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture
Product definition: Mixture
Classification in accordance with 29 CFR 1910 (OSHA HCS) and EC Regulation No. 1272/2008
Acute Toxicity, Oral - Category 4 [H302]
Skin Corrosion - Category 1A [H314]

2.2 Label Elements

Hazard Symbol(s):



GHS05 GHS07

Signal Word: Danger

Hazard Statement(s):
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage

Precautionary Statements:

[Prevention]
P260 - Do not breathe dust.
P264 - Wash hands and other skin areas exposed to material thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing and eye protection.

[Response]
P301 + P330 + P331 + P310 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
P303 + P361 + P350 - IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340 + P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P363 - Wash contaminated clothing before reuse.
P321 - Specific treatment: Contact a POISON CENTER or doctor. Refer to Section 4 of this SDS.

[Storage]
P405 - Store locked up.

[Disposal]
P501 - Dispose of contents and containers in accordance with national and local regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
Repeated exposure may cause skin dryness or cracking

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable

3.2 Mixtures

% by Weight	Ingredient	CAS Number	EC Number	Index Number	GHS Classification
<75	Potassium Hydroxide	1310-58-3	215-181-3	019-002-00-8	H302, H314
<15	Sodium Metasilicate	6834-92-0	229-912-9	014-010-00-8	H314, H335
<15	Sodium (C14-16) Olefin Sulfonate	68439-57-6	207-407-8	----------	H302, H315, H318, H401, H412

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product dust causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight fitting clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after the first 2 minutes and continue rinsing. Seek immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing and continue rinsing for at least 15 minutes. Wash contaminated clothing thoroughly before reuse. Discard contaminated shoes. If skin irritation persists, seek medical attention.

Ingestion: Rinse mouth with water, if the victim is conscious. Remove dentures, if any. DO NOT induce vomiting unless directed to do so by medical personnel. Give 1 - 2 cupfuls of water or milk to drink if the victim is conscious, alert and able to swallow. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes severe eye irritation and burns with inflammation, swelling, pain and tearing. May cause irreversible eye damage. The degree of injury depends on the concentration (in solution) and duration of contact.

Skin: Causes severe skin irritation and burns. Symptoms include redness, itching, swelling, blisters and pain. May cause drying and cracking of the skin and dermatitis. The degree of injury depends on the concentration (if in solution) and duration of contact.

Inhalation: Not expected to be a respiratory irritant in pellet form. Dust from crushed pellets causes irritation of and chemical burns to the of the nose, throat and respiratory tract. Symptoms may include cough, burns, breathing difficulty and possible coma. Irritation may lead to chemical pneumonitis and pulmonary edema.

Ingestion: Harmful if swallowed. Causes severe burns to the mouth, lips, throat and digestive tract with abdominal pain, vomiting, diarrhea, shock and possible death. May cause circulatory system failure. May cause perforation of the esophagus an digestive tract.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Chronic eye contact may cause conjunctivitis. Effects may be delayed.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to doctor and hospital personnel: Treat symptomatically and supportively. Symptoms may be delayed.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use extinguishing media appropriate for surrounding fire.

Unsuitable methods of extinction: None known

5.2 Special hazards arising from the substance or mixture

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards: Not considered to be an explosion hazard.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Fire fighters should try to contain water contaminated by this material from being discharged to any waterway, sewer or drain to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective clothing and equipment designated in Section 8.2. Ventilate the area. Remove all sources of ignition. No smoking. Clean up spills immediately.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Spilled product can be reused. Collect product for reuse or place in an approved container for proper disposal. Minimize dust generation during cleanup. Carefully collect crushed material and place into an approved container for proper disposal. Observe possible restrictions (Sections 7.2 and 10.5). Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 13 for additional waste treatment information.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8.2. Minimize dust generation and accumulation. Do not get in eyes or on skin or clothing. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear appropriate respiratory protection.

Advice on protection against fire and explosion

Not considered to be a fire or explosion hazard

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool, well-ventilated area away from incompatible materials (see Section 10.5), food and drink. Transfer only to approved containers having correct labeling. Keep container tightly closed to prevent moisture absorption. Protect container against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent spillage. Containers are hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values

CAS Number	Ingredient	OSHA PEL - TWA	ACGIH TLV	NIOSH
1310-58-3	Potassium Hydroxide	2 mg/m^3, ceiling	2 mg/m^3, ceiling	2 mg/m^3, ceiling

8.2 Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1 for additional data.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

Eye/face protection: Wear safety glasses with non-perforated side shields. Refer to 29 CFR 1910.133, ANSI Z87.4 or Standard EN166.

Hand protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of gloves must be greater than the intended use period.

Other protective equipment: Wear protective clothing. Wear protective boots if the situation requires.

Respiratory protection: None needed with normal handling. Wear an approved filter type dust respirator if needed when handling this product. Where risk assessment shows air purifying respirators are appropriate use a half-mask respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respiratory and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls: Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid, red pellet
Odor	No data available
Odor Threshold	No data available
Molecular Weight	Not applicable
Chemical Formula	Not applicable
pH	>13 (1% aqueous solution)
Freezing/Melting Point, Range	No data available
Initial Boiling Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Non-flammable
Flash Point	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Lower Explosive Limit (LEL)	No data available
Upper Explosive Limit (UEL)	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Density	0.6407 g/cm^3 (40 lb/ft^3)
Viscosity	No data available
Solubility in Water	Soluble
Partition Coefficient: n-octanol/water	No data available
Oxidizing Properties	Not applicable
Explosive Properties	Not applicable
Volatiles by Weight @ 21 ºC	0%

9.2 Other data

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

This product is stable under recommended handling and use.

10.2 Chemical stability

This product is stable under recommended storage conditions, handling and use. Avoid contact with water and moist or wet environments.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Contact with incompatible materials, moisture and high temperatures.

10.5 Incompatible materials

Strong oxidizing agents, acids

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, potassium oxides, sodium oxides, silicon oxides and hydrogen gas.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity

No data available

Acute inhalation toxicity

No data available

Acute dermal toxicity

LD_{50}, rabbit: >5,000 mg/kg [calculated]

Skin irritation/corrosion

Corrosive - causes severe skin irritation and burns

Eye irritation/corrosion

Corrosive - causes severe eye irritation and eye damage

Sensitization

No data available

Genotoxicity in vitro/in vivo

No data available

Mutagenicity

No data available

Specific organ toxicity - single exposure

No data available

Specific organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further information

No component of this product is present at levels greater than or equal to the 0.1% threshold (de minimis) is identified as a probable, possible, potential or confirmed carcinogen by IARC, ACGIH, NTP or OSHA.

No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Large discharges to the environment may increase the pH of aquatic systems to a pH >12, which may be fatal to aquatic life and soil micro-organisms. Discharges of large quantities of this product to waterways may be harmful to the aquatic environment with long term effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulation potential

Product is not expected to bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available.

12.6 Other adverse effects

Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable solid product in an approved landfill. Dispose of solutions through normal sump systems. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements

RCRA P-Series: No listings
RCRA U-Series: No listings

SECTION 14 - TRANSPORT INFORMATION

In accordance with 49 CFR 173.154 this product can be shipped as limited quantity for corrosive solids Packing Group III when inner packagings do not exceed 5.0 kg (11 lbs) net capacity each for solids and is packed in strong outer packaging.

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

US DOT (Domestic Ground Transportation)

Proper Shipping Name:	Corrosive solid, n.o.s. (Potassium Hydroxide, Sodium Metasilicate)
Hazard Class:	8
UN/NA:	UN1759
Packing Group:	III
NAERG:	Guide #154
Packaging Authorization:	Non-Bulk: 49 CFR 173.213; Bulk: 173.240
Packaging Exceptions:	49 CFR 173.154



IMO/IMDG (Water Transportation)

Proper Shipping Name:	Corrosive solid, n.o.s. (Potassium Hydroxide, Sodium Metasilicate)
Hazard Class:	8
UN/NA:	UN1759
Packing Group:	III
Marine Pollutant:	No
EMS Number:	F-A, S-B

ICAO/IATA (Air Transportation)

Proper Shipping Name:	Corrosive solid, n.o.s. (Potassium Hydroxide, Sodium Metasilicate)
Hazard Class:	8
UN/NA:	UN1759
Packing Group:	III
Quantity Limitations:	49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 100 kg; Passenger Aircraft: 25 kg

RID/ADR (Rail Transportation)

Proper Shipping Name:	Corrosive solid, n.o.s. (Potassium Hydroxide, Sodium Metasilicate)
Hazard Class:	8
UN/NA:	UN1759
Packing Group:	III

SECTION 15 - REGULATORY INFORMATION

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

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CRF 1910.1200.

OSHA Process Safety Management Standard: Chemicals in this product are not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: Chemicals in this product are not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

Toxic Substance Control Act (TSCA) Inventory: All components of this product are listed on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.4(f)(2)) and Chemical Code Number
Not listed

Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number
Not listed

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals
Not listed

Superfund Amendments and Reauthorization Act (SARA)

SARA 313 Information: None of the chemicals in this product are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA Section 311/312 Hazard Categories: Acute Health Hazard

SARA 302/304 Extremely Hazardous Substance: None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substance(s):
Potassium Hydroxide (CAS #1310-58-3), RQ - 453.6 kg (1,000 lbs)

Clean Air Act (CAA)
This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).
This product does not contain any Class 1 Ozone depletors.
This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)
Potassium Hydroxide (CAS #1310-58-3) is listed as a Hazardous Substance under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986
This product contains no chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

Other U.S. State Inventories
Potassium Hydroxide (CAS #1310-58-3) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/ Air Pollutants List(s): CA, DE, ID, MA, NJ, PA, RI, WA, WI.

Canada

WHMIS Hazard Classification
Causes severe skin burns and eye damage; harmful if swallowed

Canadian National Pollutant Release Inventory (NPRI): Potassium Hydroxide (CAS #1310-58-3) is listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 1 (low hazard to waters)

Global Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (KECI)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.
No - One or more components of this product are not listed or are exempt from listing on the inventory administered by the governing country.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

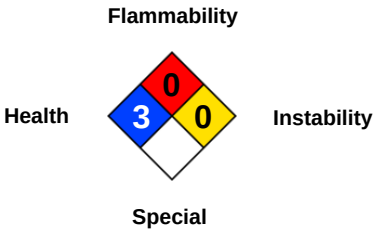


C = safety glasses, gloves and an apron

HMIS Hazard Rating Legend
0 = Minimal 1 = Slight 2 = Moderate 3 = Serious
4 = Severe * = Chronic Health Hazard

NFPA Hazard Rating Legend
0 = Insignificant 1 = Slight 2 = Moderate
3 = High 4 = Extreme

National Fire Protection Association (NFPA)



Full text of GHS Hazard phrases referenced in Section 3 (not covered in Section 2)
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H401 - Toxic to aquatic life
H412 - Harmful to aquatic life with long term effects

Abbreviation Key

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)
CAS	Chemical Abstract Services
CFR	Code of Federal Regulations
DOT	Department of Transportation
EMS Guide	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency
ERG	Emergency Response Guide Book
FDA	Food and DrugAdministration

GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
HCS	Hazard Communication Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
mppcf	Millions of Particles Per Cubic Foot
NA	North America
NAERG	North American Emergency Response Guide Book
NIOSH	National Institute for Occupational Safety
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulating and Toxic
PEL	Permissible exposure limit
PMCC	Pensky-Martens Closed Cup
ppm	Parts Per Million
RCRA	Resource Conservation and Recovery Act
RID	Dangerous Goods by Rail
RQ	Reportable Quantity
TCC/Tag	Tagliabue Closed Cup
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time-weighted Average
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulating
WHMIS	Workplace Hazardous Materials Information System

SpeedClean assumes no legal responsibility or liability form the described product's use. All chemicals possess unknown potential hazards. The information herein should be used only to supplement the end user's existing knowledge. Read directions for proper use. This SDS was written for the product as packaged. Cleaning Contractors shall comply with all applicable OSHA regulations.

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