

CC501 Heavy Duty Concrete Cleaner

Page 1

1 Identification

Product Identifier

Trade name: CC501 Heavy Duty Concrete Cleaner

Relevant identified uses of the substance or mixture and uses advised against

Strong Alkaline Concrete Cleaner

Product Description Heavy Duty Concrete Cleaner

Application of the substance / the mixture: Industry Specific Application

Details of the Supplier of the Safety Data Sheet

Manufacturer/Supplier:

Concrete Sealers USA

P.O. Box 5464

De Pere, WI 54115

Phone: 888-583-2991

Emergency telephone number: 800-424-9300

2 Hazard(s) Identification

Classification of the substance or mixture



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

STOT SE 3 H335 May cause respiratory irritation.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS05 GHS07

Signal word: Danger

CC501 Heavy Duty Concrete Cleaner

2 Hazard(s) Identification (Continued)

Hazard-determining components of labeling:

Sodium Hydroxide
 Trisodium Orthophosphate
 Disodium Metasilicate

Hazard statements:

H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.

Precautionary statements:

P260 Do not breathe dusts or mists.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear eye protection/face protection.
 P264 Wash thoroughly after handling.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 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/doctor.
 P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P363 Wash contaminated clothing before reuse.
 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity

30% of the mixture consists of component(s) of unknown toxicity.

Classification system

NFPA ratings (scale 0- 4)



HMIS-ratings (scale 0 - 4)



Hazard(s) not otherwise classified (HNOC): None known





CC501 Heavy Duty Concrete Cleaner

3 Composition / Information on Ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components:

1310-73-2	Sodium Hydroxide	40-60%
	 Skin Corr. 1A, H314	
7601-54-9	Trisodium Orthophosphate	15-35%
	 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
6834-92-0	Disodium Metasilicate	5-10%
	 Skin Corr. 1B, H314,  STOT SE 3, H335	

4 First-Aid Measures

Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash skin with soap and plenty of water for at least 15 minutes.

Remove contaminated clothing and wash before reuse.

Get medical attention if symptoms occur.

After eye contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

After swallowing: Do not induce vomiting without medical advice.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-Fighting Measures

Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

If incinerated, product will release the following toxic fumes: Oxides of Carbon, Sodium, Phosphorous and Silicon.

Advice for firefighters

Protective equipment: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

CC501 Heavy Duty Concrete Cleaner

Page 4

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.
 Avoid contact with skin, eyes and clothing.
 Avoid breathing dust.
 Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up

Sweep up the material.
 Avoid the formation of dust
 Dispose contaminated material as waste according to section 13.
 Ensure adequate ventilation.
 Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and Storage

Handling

Precautions for safe handling: Ensure good ventilation at the workplace.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.), Lead, Tin/Tin Oxides, organic materials, nitro compounds and moisture (water).

Storage

Requirements to be met by storerooms and receptacles: Store in the original container.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Store in dry conditions.

Keep receptacle tightly sealed.

Specific end use(s)

No further relevant information available.

CC501 Heavy Duty Concrete Cleaner

8 Exposure Controls / Personal Protection

Additional information about design of technical systems: No further data. See section 7.

Control parameters

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Components with occupational exposure limits

1310-73-2 Sodium Hydroxide

PEL Long-term value: 2 mg/m³

REL Ceiling limit value: 2 mg/m³

TLV Ceiling limit value: 2 mg/m³

7601-54-9 Trisodium Orthophosphate

WEEL Short-term value: 5 mg/m³

Additional information: The lists that were valid during the creation of this SDS were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Breathing equipment:



Dust mask

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:



Tightly sealed goggles

Body protection:



Protective work clothing

CC501 Heavy Duty Concrete Cleaner

9 Physical and Chemical Properties

Information on basic physical and chemical properties**General Information****Appearance:****Form:** Granular powder**Color:** White**Odor:** Odorless**Odor threshold:** Not determined.**pH-value@ 20 °C (68 °F):** >13.5**Change in condition****Melting point/Melting range:** Not determined.**Boiling point/Boiling range:** 1390 °C (2534 °F)**Flash point:** None**Flammability (solid, gaseous):** Product is not flammable.**Ignition temperature:****Decomposition temperature:** Not determined.**Auto igniting:** Product is not self-igniting.**Danger of explosion:** Product does not present an explosion hazard.**Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**Vapor pressure:** Not applicable.**Density:****Relative density:** Not determined.**Vapor density:** Not applicable.**Evaporation rate:** Not applicable.**Solubility in/Miscibility with:****Water:** Soluble.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:****Dynamic:** Not applicable.**Kinematic:** Not applicable.**Solvent content:****Organic solvents:** 0.0%**Solids content:** 100.0%**Other information**

No further relevant information available.

CC501 Heavy Duty Concrete Cleaner

Page 7

10 Stability and Reactivity

Reactivity

No further relevant information available.

Chemical stability

Stable under normal conditions.

Thermal decomposition/conditions to be avoided

No decomposition if used according to specifications.

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid

No further relevant information available.

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, strong reducing agents, reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.), Lead, Tin/Tin Oxides, organic materials, nitro compounds and moisture (water).

Hazardous decomposition products

Oxides of Carbon, Sodium, Silicon and Phosphorous.

11 Toxicological Information

Information on toxicological effects:

Acute toxicity:

LD/LC50 values that are relevant for classification:

1310-73-2 Sodium Hydroxide

Oral LD50 2000 mg/kg (rat)

6834-92-0 Disodium Metasilicate

Oral LD50 1280 mg/kg (rat)

Primary irritant effect:

On the skin: Strong caustic effect on skin and mucous membranes.

On the eye: Strong irritant with the danger of severe eye injury.

Corrosive effect.

Causes serious eye irritation.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Irritant

Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories:

IARC (International Agency for Research on Cancer):

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

CC501 Heavy Duty Concrete Cleaner

Page 8

11 Toxicological Information (Continued)

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

Toxicity:

Aquatic toxicity:

6834-92-0 Disodium Metasilicate

EC50 247 mg/l (Water flea)

Persistence and degradability:

No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential:

No further relevant information available.

Mobility in soil:

No further relevant information available.

Additional ecological information:

General notes:

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects:

No further relevant information available.

13 Disposal Considerations

Waste treatment methods

Recommendation:

Observe all federal, state and local environmental regulations when disposing of this material.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

CC501 Heavy Duty Concrete Cleaner

13 Disposal Considerations (Continued)

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

UN-Number

DOT, ADR, IMDG, IATA UN3262

UN proper shipping name

DOT Corrosive solid, basic, inorganic, n.o.s. (Sodium Hydroxide)
 ADR UN3262 Corrosive solid, basic, inorganic, n.o.s. (Sodium Hydroxide)
 IMDG, IATA CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium Hydroxide)

Transport hazard class(es)

DOT  Class: 8 Corrosive substances
 Label: 8

ADR  Class: 8 (C6) Corrosive substances
 Label: 8

IMDG, IATA  Class: 8 Corrosive substances
 Label: 8

Packing group

DOT, ADR, IMDG, IATA I

Environmental hazards: Not applicable.

Special precautions for user: Warning: Corrosive substances

Danger code (Kemler): 88

EMS Number: F-A,S-B

Segregation groups: Alkalis

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

Transport/Additional information

DOT
Quantity limitations: On passenger aircraft/rail: 1 kg
 On cargo aircraft only: 25 kg

ADR

Excepted quantities (EQ): Code E0
 Not permitted as Excepted Quantity

CC501 Heavy Duty Concrete Cleaner

14 Transport Information (Continued)

IMDG

Limited quantities (LQ):	0
Excepted quantities (EQ):	Code E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN3262, Corrosive solid, basic, inorganic, n.o.s. (Sodium Hydroxide), 8, I

15 Regulatory Information

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

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):

7601-54-9 Trisodium Orthophosphate

Section 313 (Specific toxic chemical listings):

7601-54-9 Trisodium Orthophosphate

TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

California Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenic categories

EPA (Environmental Protection Agency):

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS05 GHS07

Signal word: Danger

CC501 Heavy Duty Concrete Cleaner

Page 11

15 Regulatory Information (Continued)

Hazard-determining components of labeling:

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P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this Safety Data Sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision: 05/05/2016

CC501 Heavy Duty Concrete Cleaner

16 Other Information (Continued)

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH : National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI : Biological Exposure Limit

Skin Corr. 1A: Skin corrosion/irritation- Category 1A

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Irrit. 2: Skin corrosion/irritation- Category 2

Eye Dam. 1: Serious eye damage/eye irritation- Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation- Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3