CC501 Heavy Duty Concrete Cleaner

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

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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)

Health = 3
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 3
Fire = 0
Reactivity = 0

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

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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: CO_2, 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, Phorphorous 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.

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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.

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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/m^3

REL Ceiling limit value: 2 mg/m^3

TLV Ceiling limit value: 2 mg/m^3

7601-54-9 Trisodium Orthophosphate

WEEL Short-term value: 5 mg/m^3

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

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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.

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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

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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.

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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 EO Not permitted as Excepted Quantity

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14 Transport Information (Continued)

IMDG

Limited quantities (LQ):	0
Excepted quantities (EQ):	Code EO 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

Continues on next page

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15 Regulatory Information (Continued)

Hazard-determining components of labeling:
Sodium Hydroxide
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Disodium Metasilicate

Hazard statements:

H314	Causes severe skin burns and eye damage.
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Precautionary statements:

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P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
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P264	Wash thoroughly after handling.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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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.

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: 11/30/2024

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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