



# CONCRETE REMOVER

PRODUCT LABEL AND DATA SHEET



PRODUCT CODE: SPECON



Concrete Remover is an acid cleaner and rust remover for metal and concrete surfaces.



- Highly Concentrated
- Contains Wetting Agents To Ensure Proper Rinse-Off.
- Effectively Removes Concrete & Cement Deposits
- Areas of use - Building Equipment / Concrete Mixers / Brick Surfaces

Colour: Yellow  
 Appearance: Liquid  
 pH: Less than 1

Density: 1.1Kg/Lt  
 Packaging: 1Lt, 5Lt; 25Lt  
 Smell: Strong Acid



## METHOD OF APPLICATION

**Metal Immersion:** Immerse for 5-30 min depending on amount of rust and soil to be removed. Process can be sped up by heating tank to 50°C  
**Direct Application:** Apply by brush or mop to parts too large for immersion  
 Contact time approx 20 min for cleaning/ de-rusting. All parts to be rinsed with water to remove acid residues. **PROTECTIVE CLOTHING, PVC GLOVES, GOGGLES AND OVERALLS SHOULD BE WORN WHEN USING THIS PRODUCT.**

## DILUTION RATIO

Metal Immersion – Dilute 1:5 with water  
 Concrete Cleaning – Use Undiluted

Direct Application – Dilute 1:5 with water  
 Light Duty Cleaning – Dilute 1:5 with water



## IF INGESTED, SEEK MEDICAL ATTENTION

Eyes: Rinse with water. Seek medical care.  
 Ingestion: Drink water. Seek medical care.  
 Skin: Wash contact area with soap and water.  
 Inhalation: Remove patient to fresh air.



**IMPORTANT:** Always keep product out of children's reach. Ensure that the product lid remains closed and tightened at all times. Keep away from extreme heat and naked flame.

**WE DO NOT ACCEPT LIABILITY FOR CLAIMS OF ANY KIND FOR ANY LOSS INCLUDING, WITHOUT LIMITATION, CONSEQUENTIAL LOSS, INJURY OR DAMAGE ARISING FROM THE USE OF THE PRODUCTS WHICH ARE THE SUBJECT MATTER HEREOF.**

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# SAFETY DATA SHEET

## Section 1. Identification

GHS product identifier : CONCRETE CLEANER

Product type : ACID Liquid.

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

#### Identified uses

Environmental / biodegradable acid wash for parts, cement, concrete cleaning with rust removal capabilities

## Section 2. Hazards identification

Classification of the substance or mixture : ACUTE TOXICITY: ORAL - Category 5  
SKIN CORROSION/IRRITATION - Category 1A  
EYE IRRITATION - Category 1

### SANS 10234: 2007 (GHS) label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : May be harmful if swallowed.  
Causes skin irritation and eye irritation

#### Precautionary statements

General : Read label before use. Keep out of reach of children.

Prevention : Wear protective gloves. Wear eye or face protection: Recommended: splash goggles. Wear protective clothing: Recommended: overall. Avoid release to the environment. Wash hands thoroughly after handling.

Response : IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.  
EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Section 4. First aid measures

- Eye contact** : Causes eye irritation.
- Inhalation** : No potential health affect .
- 
- Skin contact** : Causes severe drying out / defating of skin.
- Ingestion** : May be harmful if swallowed. May cause burns to mouth, throat and stomach.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
watering  
redness
- Inhalation** : No known symptoms .
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
drying out may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** :
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : None.

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Section 2. Hazards identification

Other hazards which do not result in classification : No other Hazards identified

## Section 3. Composition/information on ingredients

Substance/mixture : INORGANIC ACID

### CAS number/other identifiers

Ingredient name	%	CAS number
PHOSPHORIC ACID	30-50	7664-38-2

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.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.
- Inhalation** : No first aid measures required
- Skin contact** : Flush contaminated skin with water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Apply cream onto any skin that may dry out from contact of product
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

## Section 5. Fire-fighting measures

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**Environmental precautions** : Avoid dispersal of large spilled material and run off

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

**Large spill** : Stop leak if without risk.

## Section 7. Handling and storage

**Precautions for safe handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment.

Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 5 to 40°C (50 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Section 8. Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

**Ingredient name** **Exposure limits**

**Recommended monitoring procedures** : Keep stored as directed .

**Appropriate engineering controls** : Keep stored as directed .

**Environmental exposure controls** : Refer to point 6 of SDS

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Recommended: splash goggles

**Skin protection**

**Hand protection** : Recommended: Chemical-resistant, impervious gloves

**Body protection** : Recommended: overall

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed.

**Respiratory protection** : Recommended: disposable particulate mask to protect against splashing

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: Liquid. [Viscous liquid.]
<b>Color</b>	: YELLOW
<b>Odor</b>	: STRONG ACID.
<b>Odor threshold</b>	: No data available.
<b>pH</b>	: LESS THAN 1
<b>Melting point</b>	: -20°C (-4°F)
<b>Boiling point</b>	: 100°C (212°F)
<b>Flash point</b>	: Product does not sustain combustion.
<b>Burning time</b>	: Not applicable.
<b>Burning rate</b>	: Not applicable.
<b>Evaporation rate</b>	: No data available.
<b>Flammability (solid, gas)</b>	: No data available.
<b>Lower and upper explosive (flammable) limits</b>	: No data available.
<b>Vapor pressure</b>	: No data available.
<b>Vapor density</b>	: No data available.
<b>Relative density</b>	: 1.1
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: No data available.
<b>Auto-ignition temperature</b>	: No data available.
<b>Decomposition temperature</b>	:
<b>SADT</b>	: No data available.
<b>Viscosity</b>	: No data available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: Can react with ammoniated gasses.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Large spills .
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: acids
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
PHOSPHORIC acid	LC50 Inhalation Vapor	Rat	310 mg/m3	4 hours
	LD50 Oral	Rat	438 mg/kg	-
	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
	LD50 Intraperitoneal	Rat	525 mg/kg	-
	LD50 Intravenous	Mouse	71 mg/kg	-
	LD50 Oral	Mouse	3100 mg/kg	-
	LD50 Oral	Rat	3120 mg/kg	-
	LD50 Subcutaneous	Guinea pig	750 mg/kg	-
LD50 Subcutaneous	Mouse	900 mg/kg	-	
LD50 Subcutaneous	Rat	2060 mg/kg	-	

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
PHOSPHORIC acid	Eyes - Severe irritant	Rabbit	-	24 hours 250 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

**Sensitization**

No significant risk level

**Mutagenicity**

No significant risk level

**Carcinogenicity**

No significant risk level

**Reproductive toxicity**

No significant risk level

**Teratogenicity**

## Section 11. Toxicological information

No significant risk level

### Specific target organ toxicity (single exposure)

None.

### Specific target organ toxicity (repeated exposure)

None.

### Aspiration hazard

None.

**Information on the likely routes of exposure** : Ingestion.

### Potential acute health effects

**Eye contact** : Causes serious eye burns

**Inhalation** : None.

**Skin contact** : Causes severe drying out of skin and or burns .

**Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : No data available.

**Potential delayed effects** : No data available.

#### Long term exposure

**Potential immediate effects** : No data available.

**Potential delayed effects** :

#### Potential chronic health effects

No data available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	3831 mg/kg
Dermal	6414 mg/kg

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
PHOSPHORIC ACID	Acute EC50 29000 ug/L Fresh water	Algae - Chlorella pyrenoidosa - Exponential growth phase	96 hours
	Acute EC50 7.81 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	Acute EC50 5.88 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 112.4 mg/L	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 1.18 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 >1000 mg/L Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 800000 ug/L Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 ug/L Marine water	Fish - Menidia beryllina - 40 to 100 mm	96 hours
	Acute EC50 276.61 mg/L Fresh water	dubia - Neonate - <24 hours	48 hours
	Acute EC50 40.38 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
Acute LC50 125000 ug/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate - <24 hours	48 hours	
		Fish - Gambusia affinis - Adult	96 hours

### Persistence and degradability

No specific data.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
PHOSPHORIC ACID	0.25 -		LOW

### Mobility in soil




**Soil/water partition coefficient (K<sub>oc</sub>)** : Biodegradable aids in fertilization .

**Other adverse effects** : No known significant effects or critical hazards.

### Section 13. Disposal considerations

: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	SANS 10228:2012	IMDG	IATA
UN number	UN1760	UN1760	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	Corrosive liquid, n.o.s.
Transport hazard class(es)	8 	8 	8 
Packing group	III	III	III
Environmental hazards			
Special precautions for user	No data available.	No data available.	No data available.
Additional information	-	<b>Emergency schedules (EmS)</b> F-A, S-B	<b>Passenger and Cargo Aircraft</b> Quantity limitation: 5 L Packaging instructions: 852 <b>Cargo Aircraft Only</b> Quantity limitation: 60 L Packaging instructions: 856 <b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 1 L Packaging instructions: Y841

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :

### Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product

## Section 16. Other information

### History

<b>Date of printing</b>	: 30/01/2016.
<b>Date of issue/Date of revision</b>	: ***.
<b>Date of previous issue</b>	: No previous issue..
<b>Version</b>	:
<b>Key to abbreviations</b>	: ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations
<b>References</b>	: Supplier Safety Data Sheet. Toxnet.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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