

## Concrete Remover

### Material Safety Data Sheet

#### 1. Description

Concrete Remover can be used anywhere you find concrete, cement or mortar. It destroys the binder of these materials, making them easy to remove from surfaces by brushing them off.

#### 2. Composition/Information on ingredients

Identification	(EC) 1272/2008	Note	%
CAS: 5949-29-1 EC: 611-842-9  CITRIC ACID MONOHYDRATE	GHS07 Wng Eye Irrit. 2, H319		10<=x%<25
Cas: 7664-38-2 Ec: 231-633-2  PHOSPHORIC ACID	Ghs05 Dgr Met.Corr.1,H290 Skin Corr.1B,H314	B(1)	10<=x%<25
INDEX: 007-010-00-4 CAS: 7632-22-0 EC: 231-555-9  SODIUM NITRITE	GHS03, GHS06, GHS09 Dgr Ox. Sol.3, H272 Acute Tox, 3,H301 Aquatic Acute 1, H400 M Acute = 1		10<=x%<1

#### 3. Hazard Information

##### Classification of the substance or mixture:

- In compliance with EC regulation No 1272/2008 and its amendments
- Skin corrosion, Category 1A (Skin Corr. 1A, H314)
- This mixture does not present a physical hazard. No known foreseeable environmental damage under standard conditions of use.

##### Label elements

- In compliance with EC regulation No 1272/2008 and its amendments
- Hazard pictograms:



- 
- GHS05
- Signal word: DANGER
- Product identifiers: EC 231-633-2 PHOSPHORIC ACID
- Hazard statements: H314 Causes severe skin burns and eye damage
- Precautionary statements – Prevention:
- P260: Do not breathe dust/fume/gas/mist/vapours/spray
- P264: Wash the hands thoroughly after handling
- P280: Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary statement – Response:**

- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P363: Wash contaminated clothing before re-use

#### **Other hazards**

- This mixture does not contain substances classified as “Substances of Very High Concern” (SVHC) >=0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.
- The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annex XIII of REACH regulations EC 1907/2006

## **4. First Aid Measures**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

### **NEVER induce swallowing by an unconscious person**

#### **In the event of splashes or contact with eyes:**

- Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open
- Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

**In the event of splashes or contact with skin:**

- Remove any soiled or splashed clothing immediately.
- Watch out for any remaining product between skin and clothing, watches, shoes, etc.
- If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing:**

- Do not give the patient anything orally.
- Seek medical attention immediately, showing the label

**Most important symptoms and effects, both acute and delayed**

- No data available.

**Indication of any immediate medical attention and special treatment needed:**

- No data available

## 5. Firefighting Measures

Non-Flammable.

**Suitable Extinguishing Media:**

- No data available.

**Special Hazards arising from the substance or mixture:**

- A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
- Do not breath in smoke
- In the event of a fire, the following may be formed:
  - Carbon Monoxide (CO)
  - Carbon Dioxide (CO<sub>2</sub>)
  - Nitrogen Oxide (NO)
  - Nitrogen Dioxide (NO<sub>2</sub>)

**Advice for firefighters:**

No data available

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

- Consult the safety measures listed under headings 7 and 8.  
For Non First Aid Worker:
- Avoid any contact with the skin and eyes.  
For First Aid Worker:
- First aid workers will be equipped with suitable personal protective equipment (See section 8).

**Environmental precautions:**

- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
- Prevent any material from entering drains or waterways.

**Methods and Materials for Containment and Cleaning Up:**

- Neutralise with an alkaline decontaminant, such as an aqueous solution of sodium carbonate or similar.
- If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.
- Clean preferably with a detergent, do not use solvents.

**Reference to other sections:**

- No data available.

**7. Handling and Storage**

Requirements relating to storage premises apply to all facilities where the mixture is handled

**Precautions for Safe Handling:**

- Always wash hands after handling.
- Remove and wash contaminated clothing before re-using.
- Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire Prevention:

- Prevent access by unauthorized personnel.

Recommended equipment and procedures:

- For personal protection, see section 8.
- Observe precautions stated on labels and also industrial safety regulations.

Prohibited equipment and procedures:

- No smoking, eating or drinking in areas where the mixture is used.

**Conditions for Safe Storage, Including any Incompatibilities**

- No data available.

Packaging

- Always keep in packaging made of an identical material to the original.

Specific end use(s)

- No data available.

**8. Exposure controls and personal protection**

**Control Parameters:**

Occupational Exposure Limits

- South Africa/DOLRL (Department of Labour, Recommended limits, 1995):

CAS	TWA:	STEL:	Ceiling	Definition:	Criteria:
7664-38-2	1mg/m <sup>3</sup>	3mg/m <sup>3</sup>	-	-	-

### Exposure Controls

Personal protection measures, such as personal protective equipment:

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



- Use personal protective equipment that is clean and has been properly maintained.
- Store personal protective equipment in a clean place, away from the work area.
- Never eat, drink or smoke during use.
- Remove and wash contaminated clothing before re-using.
- Ensure that there is adequate ventilation, especially in confined areas.

### Eye/Face Protection:

- Avoid contact with eyes.
- Use eye protection designed to protect against liquid splashes.
- Before handling, wear safety goggles with protective sides accordance with standard EN166
- In the event of high danger, protect the face with a face shield.
- Prescription glasses are not considered as protection.
- Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.
- Provide eyewash stations in facilities where the product is handled constantly.

### Hand Protection:

- Wear suitable protective gloves in the event of prolonged or repeated skin contact.
- Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
- Gloves must be selected according to the application and duration of use at the workstation.
- Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.
- Types of gloves recommended:
  - Natural latex
  - Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
  - PVC (Polyvinyl Chloride)
  - Butyl Rubber (Isobutylene-isoprene copolymer)
- Recommended properties:
  - Impervious gloves in accordance with standard EN374

### Body Protection:

- Avoid skin contact.
- Wear suitable protective clothing.
- Suitable type of protective clothing.
- In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.
- In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.
- Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.
- Work clothing worn by personnel shall be laundered regularly.
- After contact with the product, all parts of the body that have been soiled must be washed.

## 9. Physical and Chemical Properties

Physical State and Appearance	Fluid Liquid
Odour	Characteristic
Colour	Colorless
pH	1.50 ± 0.3. Strongly Acidic
Density at 20 °C	>1000 kg.m <sup>-3</sup>
Water Solubility:	Soluble

## 10. Stability and Reactivity

### Reactivity

No data available.

### Chemical Stability:

This mixture is stable under the recommended handling and storage conditions in section 7.

### Possibility of Hazardous Reactions:

No data available.

### Conditions to avoid:

Avoid: Frost

### Incompatible Materials:

No data available.

### Hazardous Decomposition Products:

The thermal decomposition may release/form:

- Carbon Monoxide (CO)
- Carbon Dioxide (CO<sub>2</sub>)
- Nitrogen Oxide (NO)
- Nitrogen Dioxide (NO<sub>2</sub>)

## 11. Toxicological Information

### Information on Toxicological Effects:

- May cause irreversible damage to the skin, namely, visible necrosis through the epidermis and into the dermis, following exposure for up to three minutes.
- Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and by the end of observation at 14 days, by discoloration due to blanching of the skin, complete areas of alopecia, and scars.

**Substances:**

Acute toxicity:  
PHOSPHORIC ACID...% (CAS: 7664-38-2)  
Oral Route: LD50=3500 mg/kg  
Species: Rat  
Dermal Route: LD50>2000mg/kg  
Species: Rabbit  
CITRIC ACID MONOHYDRATE (CAS: 5949-29-1)  
Oral Route: LD50=3000 mg/kg  
Species: Rat  
OECD Guideline 104 (Acute Oral Toxicity)

**Mixture:**

- Skin Corrosion/Irritation:
- Corrosive classification is based on an extreme Ph value.
- Serious eye damage/Irritation:
- Corrosive classification is based on an extreme pH value.

## 12. Ecological Information

**Toxicity:**

**Substances:**

CITRIC ACID MONOHYDRATE (CAS: 5949-29-1)  
Fish Toxicity: LD50 > 760 mg/l  
Species: Leuciscus idus  
Duration of exposure: 96 h  
Crustacean Toxicity: EC50 = 12 mg/l  
Species: Daphnia Magna  
Duration of exposure: 48 h  
Algae Toxicity: EC50 – 640 mg/l  
Species: Scenedesmus Quadricauda  
Duration of exposure: 72 h

**Mixtures:**

No aquatic toxicity data available for the mixture.

**Persistence and degradability:**

**Substances:**

CITRIC ACID MONOHYDRATE (CAS: 5949-29-1)  
Biodegradability: No degradability data is available, the substance is considered as not degrading quickly.

**Bioaccumulative potential:**

No data available.

**Mobility in soil:**

No data available

**Result of PBT and vPvB A**

No data available.

**Other adverse Effects**

No data available.

### 13. Disposal Considerations

Proper waste management of the mixture and/or its containers must be determined in accordance with Directive 2008/98/EC.

#### Waste Treatment Methods:

Do not pour into drains or waterways.

Waste:

- Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
- Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
- Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled Packaging:

- Empty container completely. Keep label(s) on.
- Give to a certified disposal contractor.

### 14. Transport Information

Transport product in compliance with provisions of the ADR for road, RiD for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 – IMDG 2014 – ICAO/IATA 2015)

**UN Number:** 3265

#### UN Proper Shipping Name:

UN3265 = CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (phosphoric acid...%)

#### Transport Hazard Class(es):

- Classification:



8

#### Packing Group

III

#### Special Precautions for User

ADR/RiD	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C3	III	8	80	5 L	274	E1	3	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	8	-	III	5 L	F-A,S-B	223 274	E1

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	III	852	5 L	856	60 L	A3 A803	E1
	8	-	III	Y841	1 L	-	-	A3 A803	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

## Transport in Bulk According to Annex II of Marpol and the IBC Code

No data available.

## 15. Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture - Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2013

### - Container Information:

No data available.

### - Particular Provisions:

No data available.

### Chemical Safety Assessment:

No data available.

## 16. Other Information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Wording and phrases mentioned in section 3:

H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life

### Abbreviations:

ADR:	European agreement concerning the international carriage of dangerous goods by Road.
IMDG:	International Maritime Dangerous Goods
IATAL :	International Air Transport Association.
ICAO:	International Civil Aviation Organisation
RID:	Regulations concerning the International carriage of Dangerous goods by rail.
WGK:	Wassergefährdungsklasse (Water Hazard Class)
GHS <sub>05</sub> :	Corrosion
PBT:	Persistent, bioaccumable and toxic
vPvB:	Very persistent, very bioaccumulable
SVHC:	Substances of very high concern



[rssmining.co.za](http://rssmining.co.za)

Revised: October 2020

©RSS Mining (Pty) Ltd

---

**RSS Mining Pty Ltd** | Rock Support Systems

**Office** (+27) 18 771 5589 | **Email** [info@rssmining.co.za](mailto:info@rssmining.co.za) **Web:** [rssmining.co.za](http://rssmining.co.za)

**Working Hours** Mon - Thu 08:00 - 16:00, Fri 08:00 - 13:00 | **PO Box** 341 | Fochville | 2515

**Address** Farm Nooitgedach, Fochville | 26°30'30.35S | 27°30'24.52E