

Safety Data Sheet

SDS No:

Version No:

Order No:

2900 NW Commerce Park Dr. Suite 10
Boynton Beach, FL 33426 (561)493-9818

Emergency Assistance

For emergency assistance involving chemicals call
Infotrac – (800)535-5305

Stone and Plaster Remover

Version 1.0

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Stone and Plaster Remover
Substance name : Sodium Citrate
Molecular formula : C₆H₅O₇Na₃ · 2H₂O
Chemical identity : Trisodium 3-hydroxy-3-carboxylate-1,5-pentanedicarboxylate
CAS-No. : 6132-04-3
Chemical nature : Solid

Manufacturer or supplier's details

Company : ProTech
2900 NW
Commerce Park
Dr.Suite 10
Boynton Beach, FL 33426USA

Telephone : +1 561-493-9818
Telefax : +1 561-493-9825
E-mail address :
Responsible/issuing person :

Emergency telephone : Infotrac
number +1 800 4535-5305

Recommended use of the chemical and restrictions on use

Recommended use : Food/ feedstuff additives, Medical aids, Industrial use

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture according to GHS.

GHS-Labeling - Label elements

No GHS label elements required.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

No ingredients are hazardous according to OSHA criteria.

SECTION 4. FIRST AID MEASURES

First aid procedures

Protection of first-aiders : No hazards which require special first aid measures.

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If inhaled	: If breathed in, move person into fresh air.
In case of skin contact	: Immediately flush skin with large amounts of water.
In case of eye contact	: If easy to do, remove contact lens, if worn. Immediately flush eye(s) with plenty of water.
If swallowed	: Clean mouth with water and drink afterwards plenty of water.
Notes to physician	
Symptoms	: No information available.
Risks	: None known.
Treatment	: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES**Fire fighting**

Suitable extinguishing media	: Water spray Dry powder Foam Carbon dioxide (CO2)
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes.

Protective equipment and precautions for firefighters

Specific hazards during firefighting	: Do not use a solid water stream as it may scatter and spread fire. Exposure to decomposition products may be a hazard to health. Hazardous decomposition products formed under fire conditions.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary. Wear fire resistant or flame retardant clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Ensure adequate ventilation, especially in confined areas. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: Prevent further leakage or spillage if safe to do so. No special environmental precautions required.
Methods and materials for containment and cleaning up	: Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

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Clean contaminated surface thoroughly.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Handling

Advice on safe handling : Avoid creating dust.
Do not breathe dust.
Avoid contact with skin and eyes.
Wear personal protective equipment.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.

Further information on storage conditions : Do not store at temperatures above 30 °C / 86 °F.

Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Provide adequate ventilation.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Use NIOSH approved respiratory protection.

Hand protection
Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Safety glasses

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and immediately after handling the

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product.
Remove contaminated clothing and protective equipment
before entering eating areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Crystalline product
Colour	: off-white, transparent
Odour	: characteristic
pH	: 7.5 - 9.0, 5 % (25 °C)
Melting point/range	: > 150 °C
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: does not ignite
Upper explosion limit	: not determined
Lower explosion limit	: not determined
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Density	: 1.86 g/cm ³ (20 °C)
Solubility(ies)	: 400 - 700 g/l (20 - 25 °C)
Water solubility	: log Pow: -1.8 - -0.2
Partition coefficient: n- octanol/water	: Calculation : Not applicable
Ignition temperature	: No data available
Thermal decomposition	
Viscosity	: Not applicable
Viscosity, dynamic	: No oxidising effect.
Oxidizing properties	
Molecular weight	: 294.1 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: None known.

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Conditions to avoid	: Avoid dust formation.
Incompatible materials	: No data available
Hazardous decomposition products	: Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Components:****Stone and Plaster Remover:**

Acute oral toxicity : LD50 Oral Mouse: 5,400 mg/kg
Method: OECD Test Guideline 401
Test substance: Non neutralised product

LD50 Oral Rat: 11,700 mg/kg
Method: OECD Test Guideline 401
Test substance: Non neutralised product

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 Dermal Rat: > 2,000 mg/kg
Test substance: Non neutralised product

Acute toxicity (other routes of administration) : Remarks: No data available

Skin corrosion/irritation**Components:****Stone and Plaster Remover:**

: Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

Serious eye damage/eye irritation**Components:****Stone and Plaster Remover:**

: Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation**Components:****Stone and Plaster Remover:**

: Species: Guinea pig
Result: Does not cause skin sensitisation.

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Method: OECD Test Guideline 406
Remarks: No human information is available.

Germ cell mutagenicity

Components:

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Genotoxicity in vitro : Type: Ames test
Test species: Salmonella typhimurium
Concentration: 0.0 - 10 mg/plate
Result: negative
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo : Type: in vivo assay
Test species: Rat
Application Route: Oral
Method: OECD Test Guideline 475
Test substance: Non neutralised product
Result: negative

Germ cell mutagenicity-Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Components:

Stone and Plaster Remover:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Components:

No toxicity to reproduction

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Reproductive toxicity - Assessment :

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

Stone and Plaster Remover:

Rat:
NOAEL: 8,000 mg/kg
LOAEL: 16,000 mg/kg
Application Route: Oral
Exposure time: 10 d
Dose: 2, 4, 8, 16 g/kg bw/day

Aspiration toxicity

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Components:

Stone and Plaster Remover:

No aspiration toxicity classification

Potential Health Effects

Aggravated Medical Condition : None known.
Symptoms of Overexposure : No information available.

Experience with human exposure

Inhalation : Respiratory system
No information available.

Skin contact : Skin
No information available.

Eye contact : Eyes
No information available.

Ingestion : Digestive organs
No information available.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Stone and Plaster Remover :

Toxicity to fish : LC50 (Oncorhynchus tshawytscha (chinook salmon)): > 10 mg/l
Exposure time: 24 h
Test Method: semi-static test

LC50 (Leuciscus idus (Golden orfe)): 440 mg/l

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- Exposure time: 48 h
Test Method: static test
Test substance: Non neutralised product
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1,535 mg/l
Exposure time: 24 h
Test Method: static test
Test substance: Non neutralised product
Method: OECD Test Guideline 202
- EC50 (Dreissena polymorpha): > 50 mg/l
Exposure time: 48 h
Test Method: static test
- Toxicity to algae : NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l
Exposure time: 8 d
Test Type: static test
- Toxicity to bacteria : TT (Pseudomonas putida): > 10,000 mg/l
Exposure time: 16 h
Test substance: Non neutralised product

Persistence and degradability

Components:

Stone and Plaster Remover :

- Biodegradability : Biodegradation: 97 %
Testing period: 28 d
Method: OECD Test Guideline 301B
Test substance: Non neutralised product
Remarks: Readily biodegradable
- Biodegradation: 100 %
Remarks: Information given is based on data obtained from similar substances.
- Physico-chemical removability : Remarks: Readily biodegradable

Bioaccumulative potential

Product:

- Partition coefficient: n-octanol/water : log Pow: -1.8 - -0.2
Remarks: Calculation

Components:

Stone and Plaster Remover :

- Bioaccumulation : Remarks: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

Mobility in soil

Product:

- Stability in soil : Remarks: Adsorbs on soil.

Other adverse effects

Components:

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Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
Additional ecological information : This product has no known ecotoxicological effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Where possible recycling is preferred to disposal or incineration.
Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

REACH On the inventory, or in compliance with the inventory
EINECS On the inventory, or in compliance with the inventory
TSCA On TSCA Inventory
DSL All components of this product are on the Canadian DSL

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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SECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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