



**Concrete Tool
Importers Ltd**

76a Oxford St
Richmond, Nelson 7020
0800 727 333

CTI Efflorescence Masonry Cleaner

SYNTHETIC ACID MASONRY CLEANER AND EFFLORESCENCE REMOVER

- Stronger than Muriatic
- 100% Acid Free
- Non-D.O.T. Regulated
- Removes Concrete
- Non-Fuming
- Non-Corrosive
- Removes Efflorescence
- Eliminates Mineral Stains
- No Neutralizing Step
- Safe on Glass
- Safe on Plants
- Safe on Skin

Until now, the only effective way to remove mortar smear, grout residue, cement and efflorescence from brick, walls and finished concrete has been to use harsh mineral acids. While these acids eat away the calcium deposits, they pose significant dangers to other parts of the building, the environment and to the person using the product.

CTI Efflorescence Masonry Cleaner is not only one of the strongest masonry cleaner in the world, it is also the safest. Independent tests confirm that Efflorescence Masonry Cleaner, formed with EMS' patented SynTech®, the world's only synthetic acid, dissolves more calcium oxide and efflorescence than Muriatic (Hydrochloric) or phosphoric acids, the active ingredients in virtually every other masonry cleaner on the market. Still, with EMS' SynTech, all that potency comes with a triple zero HMIS score.

CTI Efflorescence Masonry Cleaner will safely and quickly clean pavers, block, brick, concrete, river rock, architectural concrete and retainer walls while dissolving all signs of efflorescence. Plus, it is colour safe on even the lightest colours.

This non-fuming purely synthetic formula is non-D.O.T. regulated while exceeding OSHA & EPA compliance standards. In fact, it is so safe that it carries a USDA Authorization Code of A1, deeming it safe for use in and around food processing areas and equipment. It is 100% biodegradable, water soluble, non-toxic, non-butyl and non-flammable.

CTI Efflorescence Masonry Cleaner is 100% acid free, so no neutralizing step is required. This also means it will not etch glass, is non-corrosive and will not harm plants or turf. Simply dilute, apply, agitate and rinse.

For technical support, product information and sales call 0800 727 333 or visit www.concretetools.co.nz

Technical Data

NITRATE LEVEL: **0%** - **None** FORM: **Liquid** ODOR: **Mild Odor** COLD STABILITY: **19° F** DETERGENCY: **Excellent** TOXICITY: **Non Toxic** WETTING ABILITY: **Excellent** STORAGE STABILITY: **2 Years+**

Dissolving Properties

SHIPPER REGULATIONS: **None** FLASH POINT: **None** BOILING POINT: **228° F** SOLUBILITY IN WATER: **100%** BIODEGRADABLE: **Yes/100%** VOLATILE BY VOLUME: **N/A** CARCINOGENS: **None** VISCOSITY: **Thin**

Dilution Specifications

Please refer to the product label.

Efflorescence Dissolving Properties of Acids with 2 Minute Exposure

Toxicity Studies

Toxicity Limits: Test Procedure OECD 202, 48 hr.

LC 50 and LD 50 (rat oral) scores found Efflorescence Masonry Cleaner to be NON-TOXIC.

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals

Efflorescence Masonry Cleaner was found NOT TO BE MUTAGENIC

Dermal Irritation & Corrosion Test

A modified Draize method was used as described in OECD Guidelines for the Testing of Chemicals Sec. 404 and complies with the requirements of OECD Principles of GLP, Annex revised as of July 1992.

Efflorescence Masonry Cleaner received a Primary Irritation Score of .09 +/-0.3 and is classified as a "Very Mild Skin Irritant"

Biodegradation & Aquatic Safety

Test Procedure: Hach Reactor Digestion method for Waste Water and Sea Water. Hach Reactor Digestion Method is a semi-micro adaptation of the Standard Methods.

Test Results Conclude Efflorescence Masonry Cleaner was found to be 100% Biodegradable

COD = **Low Detectable Limits** BOD = **No Detectable Limits**

Classifications & Approvals

D.O.T., TDG, IMO, IATA, IMDG, SARA 313 311/312, California Prop 65

NON-Regulated

FDA

Approved as Safe (GRAS) (CGMP) CFR 184.1923

USDA Authorization

A1, A2, A3, A4, A7, A8, C2, G6 & G7

Acid Efflorescence Masonry Cleaner Muriatic (Hydrochloric) Sulfuric Phosphoric

Test Conditions

% Dissolved 100 98.9 46.0

63.5

16 ounces of 20% active solution 1 sq. ft. paver stone with heavy efflorescence 2 Minutes @ 70° F

Clearly, Efflorescence Masonry Cleaner out performs other acids when it comes to dissolving efflorescence, including Muriatic (Hydrochloric) which is highly corrosive.

Separate tests also show that Efflorescence Masonry Cleaner also dissolved nearly 15% more calcium oxide than Muriatic (Hydrochloric) acid.

Metal Studies

Dept. of Transportation (D.O.T.) Test Protocols as per Section 173.154 Exceptions for Class 8 (corrosive materials): The material being tested must be proven to be non-destructive or not to cause irreversible alterations in human skin tissue. Testing was conducted on an albino rabbit.

Conclusion: Efflorescence Masonry Cleaner was proven to be NON-DE-STRUCTIVE on human skin tissue.

Metal Test Limits: D.O.T. Classifies a material to be CORROSIVE if it has a corrosion rate that exceeds 6.25 mmpy on SAE C1020 carbon steel.

Results of Efflorescence Masonry Cleaner: SAE 1020 carbon steel = 0.29 mmpy **Conclusion:** Efflorescence Masonry Cleaner is NON-CORROSIVE

Additional Studies & Results: When tested, Efflorescence Masonry Cleaner showed no potential for the generation of Carbon Dioxide under NIOSH 7903, OSHA & ACGIH testing protocols governing workplace environments.

