

Granicrete International
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Phoenix, AZ 85040
TELEPHONE # 602-438-9464

Material Safety Data Sheet

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME SURE-RID ANTI-GRAFFITI CLEANER
PRODUCT CODE SURE-RID ANTI-GRAFFITI CLEANER

MANUFACTURER GRANICRETE INTERNATIONAL
3420 S. 7TH STREET, SUITE 6
PHOENIX, AZ 85040

TELEPHONE NUMBER 602-438-9464
EMERGENCY TELEPHONE PERS# 800-633-8253

EMERGENCY OVERVIEW

HMIS HEALTH RATING 2 FLAMMABILITY 2 REACTIVITY 0

Liquid: Clear, amber ODOR: Citrus, solvent, amine-like

Severe eye irritant. Severe skin irritant. Severe respiratory tract irritant. Corrosive Liquid. May cause skin sensitization. Ignition will give rise to a Class B fire. In case of fire use: Water Spray, Carbon Dioxide (CO2), Dry Chemical, Alcohol Foam.

C.A.S. CHEMICAL NAME Mixture
SYNONYMS None
CHEMICAL FAMILY Heterocyclic, amides
EMPIRICAL FORMULA Mixture
INTENDED USE Graffiti Cleaner

SECTION 2 - INGREDIENTS

%	CAS Number and Chemical Name	
> 20	872-50-4	N-METHYL PYRROLIDONE
> 15	5989-27-5	D-LIMONENE
< 20	29911-28-2	DIPROPYLENE GLYCOL

The remaining components are trade secret.

SECTION 3 - HEALTH HAZARDS

Emergency overview

NOT FOR COSMETIC USE

WARNING: COMBUSTIBLE LIQUID.

Irritating to eyes and skin.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

A component of this product has been shown to be developmentally toxic in animal studies.

Use with local exhaust ventilation.

Avoid contact with the skin, eyes and clothing.

Wear a NIOSH-certified (or equivalent) organic vapour respirator.

Wear chemical resistant protective gloves.

Wear NIOSH-certified chemical goggles.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

State of matter: liquid
Color: clear
Color: colorless
Odor: mild

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Virtually nontoxic by inhalation. Of low toxicity after short-term skin contact. Of low toxicity after single ingestion.

Irritation / corrosion:

Eye contact causes irritation. Skin contact causes irritation.

Chronic toxicity:

Carcinogenicity: Results from a number of long-term carcinogenity studies and short-term tests are available. Taking into account all of the information, there is no indication that the substance itself is carcinogenic.

Reproductive toxicity: As shown in animal studies, the product may cause damage to the testes after repeated high exposures that cause other toxic effects.

Teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.

Genotoxicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.

Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

Potential environmental effects

Aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

SECTION 4 - FIRST AID

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.
Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

SECTION 5 - FIRE AND EXPLOSION DATA

Flash point: 196 °F (ASTM D93)

Autoignition: 245 °C (DIN 51794)

Lower explosion limit: 1.3 %(V)

Upper explosion limit: 9.5 %(V)

Self-ignition temperature: not self-igniting

Suitable extinguishing media: water spray, dry extinguishing media, foam, carbon dioxide

Hazards during fire-fighting: nitrous gases

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information: Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

Environmental precautions:

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

SECTION 7 - HANDLING AND STORAGE

Handling

General advice:

Ensure thorough ventilation of stores and work areas.

Avoid contact with skin and eyes. Wear suitable gloves and eye/face protection.

Protection against fire and explosion:

The product is combustible.

Storage

General advice:

Containers should be stored tightly sealed in a dry place.

SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour respirator. Observe OSHA regulations for respirator use

(29 CFR 1910.134).

Hand protection:

Wear chemical resistant protective gloves., butyl rubber (butyl) - 0.7 mm coating thickness, Consult with glove manufacturer for testing data.

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists. Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Females of childbearing age should not come into contact with the product. Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to minimize contact. Wash soiled clothing immediately. When using do not eat or drink. When using do not smoke. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid

Odor: Citrus, solvent, amine-like

Color: Clear, amber

pH value: 8.5 - 10 (100 g/l, 20 °C)

Melting point: -23.6 °C (760 mmHg)

Boiling point: 204.3 °C (760 mmHg)

Vapor pressure: 0.32 mbar (20 °C)

Density: 1.028 g/cm³ (25 °C) (DIN 51757)

Partitioning coefficient noctanol/water (log Pow):
-0.46 (25 °C) (OECD Guideline 107)

Viscosity, dynamic: 1.796 mPa.s (20 °C)

Solubility in water: miscible

Solubility (qualitative): miscible

solvent(s): organic solvents,

Molar mass: 99.00 g/mol

SECTION 10 - STABILITY AND REACTIVITY

Substances to avoid:

strong acids, oxidizing agents

Hazardous reactions:

Exothermic reaction.

Reacts with oxidizing agents.

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides

Thermal decomposition:

approx. > 300 °C

Corrosion to metals:

No corrosive effect on metal.

SECTION 11 - TOXICOLOGICAL PROPERTIES

Acute toxicity

Oral:

Type of value: LD50

Species: rat

Value: 3,605 mg/kg

Inhalation:

Type of value: LC50

Species: rat

Value: > 5.1 mg/l

Exposure time: 4 h

Dermal:

Type of value: LD50

Species: rat

Value: 5,000 mg/kg

Irritation / corrosion

Information on: *n-Methylpyrrolidone*

Skin:

Species: rabbit

Result: Irritant.

Method: Draize test

Eye:

Species: rabbit

Result: Irritant.

Method: Draize test

Repeated dose toxicity

Information on: *n-Methylpyrrolidone*

Experimental/calculated data:

rat by inhalation 2 Week 10 dose

rat by inhalation 2 Week 10 dose

rat by inhalation 2 Week 10 dose

SECTION 12 - ECOLOGICAL INFORMATION

Fish

Acute:

static

Salmo gairdneri, syn. *O. mykiss*/LC50 (96 h): > 500 mg/l

The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates

Acute:

DIN 38412 Part 11 static

Daphnia magna/EC50 (24 h): > 1,000 mg/l

The details of the toxic effect relate to the nominal concentration.

Aquatic plants

Toxicity to aquatic plants:

DIN 38412 Part 9 green algae/EC50 (72 h): > 500 mg/l

The details of the toxic effect relate to the nominal concentration.

Microorganisms

Toxicity to microorganisms:

DIN EN ISO 8192 aquatic

activated sludge, industrial/EC50 (0.5 h): > 600 mg/l

The details of the toxic effect relate to the nominal concentration.

Degradability / Persistence

Biological / Abiological Degradation

Test method: OECD 301C; ISO 9408; 92/69/EEC, C.4-F (aerobic), Inoculum conforming to MITI

Method of analysis: BOD of the ThOD

Degree of elimination: 73 % (28 d)

Evaluation: Readily biodegradable (according to OECD criteria).

Readily biodegradable (according to OECD criteria).

Easily eliminated from water.

Bioaccumulation

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Do not discharge into waterways or sewer systems without proper authorization.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14 - TRANSPORT INFORMATION

Land transport

USDOT

Classified as combustible liquid in containers greater than 119 gallons.

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

SECTION 15 - REGULATORY INFORMATION

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category: Skin and/or eye irritant; Combustible Liquid; Chronic target organ effects reported

EPCRA 311/312 (Hazard categories): Fire; Chronic; Acute

EPCRA 313:

CAS Number Chemical name

872-50-4 N-Methylpyrrolidone

CERCLA RQ CAS Number Chemical name

100 LBS 74-89-5 methylamine

State regulations

State RTK CAS Number Chemical name

MA, PA 872-50-4 N-Methylpyrrolidone

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

Disclaimer:

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