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Material Safety Data Sheet

OneClean Granule

Section 1: Chemical Product and Company Identification

Product Name: OneClean Granule

CAS #: 87-90-1

RTECS: CAS#87-90-1

TSCA: CAS#87-90-1 is listed on the TSCA inventory

CI#: N/A

Synonym: 1,3,5-Trichloro-1-Triazine-2,4,6(1H,3H,5H)-Trione;

Symclosene, Thrichlor, TCCA

Chemical Name: Trichloroisocyanuric Acid

Contact Information:

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Trichloroisocyanuric Acid	87-90-1	90

Section 3: Hazards Identification

EMERGENCY OVERVIEW

Appearance : white powder or granular, tablet.

Danger! Strong Oxidizer. Contact with other material may cause a fire. Harmful if swallowed, inhaled, or absorbed through the skin. Cause eye, skin, and respiratory tract irritation. Contact with acids liberates toxic gas. Toxic to aquatic organism, may cause long-term adverse effect in the aquatic environment. Hygroscopic (absorb moisture from the air).

Target Organs : Kidneys, liver, respiratory system, eyes, skin

Potential Health Effects

Eye : causes eye irritation

Skin : causes skin irritation. Harmful if absorbed through the skin

Ingestion : Harmful if swallowed. May cause irritation o the digestive tract

Inhalation : Harmful if inhaled. Causes respiratory tract irritation

Chronic : May cause liver and kidney damage

Section 4: First Aid Measures

Eyes :

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin :

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion :

Do not induce vomiting. Get medical aid immediately. Call a poison control center.

Inhalation :

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Note to Physician :

Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

General Information :

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire.

Extinguishing Media :

Use water spray, dry chemical, carbon dioxide, or chemical foam. Contact professional fire-fighters immediately.

Flash Point : Not applicable

Autoignition Temperature : Not available

Explosion Limits, Lower : Not available

Upper : Not available

NFPA Rating : Health : 2; Flammability : 0; Reactivity : 2; Special Hazard : OX

HMIS Rating : Health : 3; Flammability : 0; Reactivity : 2

Section 6 : Accidental Release Measures

General Information :

Use proper personal protective equipment as indicated in section 8.

Spills/Leaks :

Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection Section). Avoid generating dusty conditions. Provide ventilation. Do not use combustible materials such as paper towels to clean up spill. Keep combustibles (wood, paper, oil, etc...) away from spilled material. Do not let this chemical enter the environment.

Section 7 : Handling & Storage

Handling :

Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Keep from contact with clothing and other combustible materials.

Storage :

Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container. Store under an inert atmosphere.

Section 8 : Exposure Controls, Personal Protection

Engineering Controls :

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

ACGIH	NIOSH	OSHA - Final PELs
none listed	none listed	none listed

OSHA Vacated PELs : Trichloroisocyanuric Acid : No OSHA Vacated PELs are listed for this chemical

Personal Protective Equipment :

Eyes : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

Skin : Wear appropriate protective clothing to prevent skin exposure

Respirators : A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSIZ88.2 requirements or European Standard EN 25+ must be followed must be followed whenever workplace conditions warrant respirator use.

Section 9 : Physical and Chemical Properties

Physical State : Solid

Appearance : White

Odor : Chlorine odor

pH : 3.0 (15 aq.sol.)

Vapor Pressure : Not available

Vapor density : Not available

Evaporation Rate : Not available

Viscosity : Not available

Boiling Point : Not available

Freezing/Melting Point : 245-251°C

Decomposition Temperature : 225°C

Solubility : 12g/L

Specific Gravity/Density : Not available

Molecular formula: C3Cl3N3O3

Molecular Weight : 232.41

Section 10 : Stability and Reactivity

Chemical Stability : Hygroscopic, absorbs moisture or water from the air

Conditions to Avoid : Incompatible materials, dust generation, combustible materials, exposure to moist air or water

Incompatibilities with Other Materials : Strong bases, strong oxidizing agents, strong reducing agents

Hazardous Decomposition Products : Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide

Hazardous Polymeration : Has not been reported

Section 11 : Toxicological Information

RTECS# : CAS#87-90-1

LD50/LC50 : CAS#87-90-1

Draize test, rabbit, eye : 500 mg severe

Draize test, rabbit, skin : 500 mg/24H Moderate

Oral, rat : Ld50 = 406 mg/kg

Carcinogenicity : Not listed by ACGIH, IARC, NTP, or CA Prop 65

Epidemiology : Not information found

Teratogenicity : Not information found

Reproductive Effects : Not information found

Mutagenicity : Not information found

Neurotoxicity : Not information found

Section 12 : Ecological Information

Ecotoxicity : No data available. No information available

Environmental : No information available

Physical : No information available

Other : Do not empty into drains

Section 13 : Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series : None listed

RCRA U-Series : None listed

Section 14 : Transport Information

	US DOT	Canada TDG
Shipping Name	TRICHLOROISOCYANURIC ACID, DRY	TRICHLOROISOCYANURIC ACID, DRY
Hazard Class	5.1	5.1
UN Number	UN2468	UN2468
Packing Group	II	II

Section 15:Regulatory Information

US Federal

TSCA CAS# 87-90-1 is listed on the TSCA inventory

Health & Safety Reporting List Non of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule.

Section 12b None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA

CERCLA Hazardous Substance and corresponding RQs

None of the chemicals in this material have an RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ

SARA Codes

CAS #87-90-1 : immediate, fire, reactive

Section 313 No chemicals are reportable under Section 313

Clean Air Act :

This material does not contain any hazardous air pollutants

This material does not contain any Class 1 Ozone depletors

This material does not contain any Class 2 Ozone depletors

Clean Water Act :

None of the chemicals in this product are listed as Hazardous Substance under the CWA

None of the chemicals in this product are listed as Priority Pollutants under the CWA

None of the chemicals in this product are listed as Toxic Pollutants under the CWA

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA

STATE :

CAS #87-90-1 can be found on the following state right to know lists : New Jersey, Pennsylvania, Massachusetts

California Prop 65

California No Significant Risk Level : None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols : XN O N

Risk Phrases :

R 22 Harmful if swallowed

R 31 Contact with acids liberates toxic gas

R 36/37 Irritating to eyes and respiratory system

R 8 Contact with combustible material may cause fire

R 50/53 Very toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment

Safety Phrases :

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 41 In case of fire and/or explosion do not breathe fumes

S 8 Keep container dry

S 60 This material and its container must be disposed of as hazardous waste

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets

WGK (Water Danger/Protection)

CAS #87-90-1 : No information available

Canada - DSL/NDSL

CAS #87-90-1 is listed on Canada's DSL List

Canada - WHMIS

This product has a WHMIS classification of C, D1B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations

Canadian Ingredient Disclosure List

CAS #87-90-1 is listed on the Canadian Ingredient Disclosure List

Section 16 : Additional Information**References :**

Not available

Other Special Considerations :

Not available

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