



Safety Data Sheet

Section 1 – Identification of the Substance and of the Company/Undertaking

1.1 Product Identification

Product Name: Thorocleans

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of mixture: Industrial

1.3 Details of the supplier of the safety data sheet

Supplier Details: United-Guardian, Inc.
P.O. Box 18050/230 Marcus Blvd.
Hauppauge, NY 11788 USA

1.4 Emergency telephone number

Emergency Phone Number: 1-800-424-9300 - ChemTrec

Email Contact: support@u-g.com

Section 2 – Hazards Identification

2.1 Classification of the substance or mixture

Classification in accordance with the Globally Harmonized Standard

Oxidizing Solid – Category 3

Skin Corrosion – Category 1B

Serious Eye Damage – Category 1

2.2 Label elements

GHS-US Labelling

Signal Word: DANGER



2.3 Hazard Statements

H272: May intensify fire; oxidizer

H314: Causes severe skin burns and eye damage

2.4 Precautionary Statements

Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep away from clothing and other combustible materials.

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303 + P361 + P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Disposal

P501 Dispose of contents/container in accordance with local regulation.

**Section 3 – Composition/Information on Ingredients****3.2 Mixture**

Common Name	CAS Number	Wt. % range
Ca(OCl) ₂ (Available Chlorine)	7778-54-3	6.0 – 8.0

Chemical Impurities Identity**CAS Numbers**

Common Names:

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.

Section 4 – First Aid Measures**4.1 Description of first aid measures**

Skin: Wash affected area with copious amount of water. Seek medical attention.

Eyes: Flush with water for 15-20 minutes. Seek medical attention.

Ingestion: Call a poison control center or doctor for treatment advice. Seek medical attention.

Inhalation: Move victim to fresh air. Seek medical attention if symptoms persist.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after skin contact: Not determined

Symptoms/Injuries after eye contact: Not determined

Symptoms/Injuries after ingestions: Not determined

Symptoms/Injuries after inhalation: Not determined

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively

Section 5 – Firefighting Measures**5.1 Extinguishing media**

Suitable extinguishing Material: Class A (water) fire extinguisher

Unsuitable extinguishing media: Do not use dry extinguishers containing ammonium compounds.

5.2 Special hazards arising from the substance or mixture

Combustion Products: HCl, HOCl, Cl₂

5.3 Advice for firefighters

Special Fire Fighting Procedures: Wear self-contained breathing apparatus for firefighting as necessary

Section 6 – Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

General Measures: Gloves, Protective Glasses/Goggles, Self-Contained Breathing Apparatus

6.2 Environmental Precautions

Do not discharge into drains or environment.



6.3 Methods for containment and cleaning up

Method for clean up: Collect spillage

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

Section 7 – Handling and Storage

7.1 Precautions for safe handling and storage

Precautions for safe handling: Use personal protective equipment as required. Avoid inhalation of dust and fumes.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage: Store contents under refrigeration (3 – 8°C)

7.3 Specific end use(s)

No further relevant information available

Section 8 – Exposure Controls/PPE

8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace:

Components (CAS-No.)	Value	Control Parameters	Basis
Calcium Hypochlorite (7778-54-3)	TWA	1 mg/m ³	ARCH OEL
Calcium Hypochlorite (7778-54-3)	Conc	37 – 48 mg/m ³	NOISH/GUIDE IDLH

8.2 Exposure Controls

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limits

Protective Measures: Gloves (Neoprene, Nitrile, Natural rubber), Protective Glasses/Goggles, Self-Contained Breathing Apparatus (NIOSH approved full face air purifying respirator equipped with combination chlorine/P100 cartridges)

Section 9 – Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Fine white powder
Odor: Chlorine
Melting Point/Range: ND
Flash Point: N/A
Flammability: Not flammable
LEL: ND
Vapor Pressure: Negligible
Relative Density: 1.21 g/cc tapped
Decomposition Temperature: ND

Odor Threshold: ND
pH (0.25%): 6.4 – 6.8
Boiling Point: ND
Evaporation Rate: < water
Solubility: Water dispersible
UEL: ND
Vapor Density: 1
Partition Coefficient: ND
Viscosity: N/A



Auto Ignition Temperature: ND

Section 10 – Reactivity Data

10.1 Reactivity

Reactive Oxidizer

10.2 Chemical Stability

Reactive Oxidizer

10.3 Possibility of Hazardous Reactions

Hazardous polymerization will not occur

10.4 Conditions to Avoid

High temperatures and humidity

10.5 Incompatible materials

Organic matter, acids, amines, ammonia and metals

10.6 Hazardous Decomposition Products

Dichlorine, Hydrochlorous acid, Hydrochloric acid

Section 11 – Toxicological Information

11.1 Information of toxicological effects

Acute Toxicity:

LD50 (oral): Not classified based on available information

LD50 (inhalation): Not classified based on available information

Likely Routes of Exposure: Skin

Primary irritant effect:

Skin corrosion/irritation: May cause severe skin burns based on available information

Serious eye damage/irritation: May cause severe eye burns based on available information

Mutagenicity: Not classified based on available information

Carcinogenicity: Not classified based on available information

Reproductive Toxicity: Not classified based on available information

Section 12 – Ecological Information

12.1 Toxicity

Aquatic Toxicity: Not Determined

12.2 Persistence and Degradability: Not Determined

12.3 Bioaccumulative Potential: Not Determined

12.4 Mobility in Soil: Not Determined

12.5 Results of PBT and vPvB Assessment: Not Determined

12.6 Other Adverse Effects:

No further relevant information available

Section 13 – Disposal Considerations

13.1 Waste Treatment Methods

Treatment, Storage, Transportation and Disposal must be in accordance with applicable Federal, State and Local Regulations



Section 14 – Transport Information

14.1 UN Number

DOT: Not regulated

14.2 UN proper shipping name

DOT: Not regulated

14.3 Transport hazard class(es)

DOT: Not regulated

14.4 Packaging group

DOT: Not regulated

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Not applicable

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA)

SARA

Section 355 (Extremely Hazardous Substances)

None of the ingredients are listed

Section 313 (Specific Toxic Chemical Listings)

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.

TSCA

All ingredients are listed

Proposition 65 (California)

None of the ingredients are listed

Section 16 – Other Information

The information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release. The information is related only to the specific material designated.

Abbreviations and acronyms:

N/A: Not applicable

ND: Not determined

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