



Safety Data Sheet

Section 1 Identification

Trade Name: Duraclean 612
Product Identification: Duraclean 612
Synonyms: None
Product Use Description: Industrial Cleaner

Date Prepared: 8/20/18
CAS No: Mixture

Details of the supplier of the safety data sheet

Plating Resources, Inc.
2845 W King St., Unit 108
Cocoa, FL 32926

Phone: (321) 632-2435
Website: www.plating.com

Emergency telephone number

Infotrac (800) 535-5053 (US & Canada)
(352) 323-3500

Section 2 Hazards Identification

GHS Classification:

Corrosive to metals:	Category 1
Skin corrosion:	Category 1
Serious eye damage:	Category 1
Acute aquatic toxicity:	Category 3

GHS label elements:



Corrosive

Signal Word: Danger

Hazard Statements:

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H402 Harmful to aquatic life.

Precautionary Statements:

Prevention

P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
 P363 Wash contaminated clothing before reuse.
 P390 Absorb spillage to prevent material damage.

Storage

- P405 Store locked up.
 P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

Disposal

- P501 Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC):

None.

Additional Information:

None.

Section 3 Composition

Chemical Name	Common name and synonyms	CAS #	%
Proprietary Component 1			37
Proprietary Component 2			22
Proprietary Component 3			20
Proprietary Component 4			15

Section 4 First Aid

General:

Move out of dangerous area. Perform first aid measures as indicated. Seek medical attention and show this safety data sheet to attending physician.

Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact:

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

Ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed:

No information available.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media:

No information available.

Specific hazards developing from the chemical:

No information available.

Precautions for firefighters:

No information available.

Firefighting Instructions:

No information available.

Protection During Firefighting:

Wear full protective gear and full face pressure demand self-contained breathing apparatus.

Other information:

No additional information available.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Avoid direct contact with skin, eyes and clothing. Avoid inhalation of mist, vapor or dust. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of mist, vapor and dust. Ensure adequate ventilation. Do not eat, drink or smoke while handling. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Conditions for safe storage, including any incompatibilities:

Store in original container. Keep container tightly closed. Store at room temperature (50-90 F) in a dry well-ventilated area.

Section 8 Exposure Controls/Personal Protection

Exposure limits:

Ingredient	Data Source	Exposure Form	Exposure Value	Exposure Notes
Proprietary Component 1	ACGIH TLV	TWA	2 mg/m3	inhalable fraction
	CAL/OSHA		5 mg/m3	
	OSHA PEL		15 mg/m3	total dust
Proprietary Component 3	ACGIH TLV	TWA	2.5 mg/m3	
	OSHA PEL	PEL	2.5 mg/m3	
Proprietary Component 2	ACGIH TLV		Not Established	
	OSHA PEL		Not Established	
Proprietary Component 4	ACGIH TLV	TWA	0.05 mg/m3	
	OSHA PEL	8h TWA	0.05 mg/m3	

Appropriate Engineering Controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures:

Eye/face protection:

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection:

Hand Protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Other:

Wear chemical resistant apron when handling.

Respiratory Protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

General hygiene considerations:

Follow good hygiene and safety practice. Wash hands and exposed skin before breaks and at the end of the work day. Do not eat, drink or smoke while handling this material. Do not wear contaminated or dirty clothing home from the work-site. Launder contaminated or dirty clothing before reuse.

Additional information:

No additional information available.

Section 9 Physical and Chemical Properties

Appearance	Light tan powder
Odor	Not available.
Odor threshold	Not available.
pH	14.0
Melting/freezing point	-12 - 10 °C (10 - 50 °F)
Initial boiling point	105 - 140 °C (221 - 284 °F)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower flammability limit	Not available.
Upper flammability limit	Not available.
Lower explosive limit	Not available.
Upper explosive limit	Not available.
Vapor pressure	< 24 hPa (< 18 mmHg) at 20 °C (68 °F)
Vapor density	1.38 - (Air = 1.0)
Relative density	Not available.
Solubility in water	completely miscible, soluble
PC: n-octanol/water	Not available.
Auto-Ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Density	Not available.
Specific gravity	Not available.

Section 10 Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Material is stable under normal handling and storage conditions.
Hazardous reactions:	Hazardous polymerization will not occur under normal handling and storage.
Conditions to avoid:	Avoid contact with acidic materials.
Decomposition products:	No decomposition products are expected under normal storage and handling conditions.
Incompatible materials:	Contact with acids, acidic substances and aluminum.

Section 11 Toxicological Information

Information on the likely routes of exposure:**Inhalation:**

No information available.

Skin Contact:

This material may be irritating to the skin.

Eye Contact:

This material may be irritating to the eyes and may cause damage.

Ingestion:

No information available.

Symptoms related to the physical, chemical and toxicological characteristics:

No information available.

Delayed and chronic effects:

No information available.

Numerical measures of toxicity:

Components	Exposure	Species	Dose	Notes
Proprietary Component 4:				
LD50	Oral	Rat	50 mg/kg	
Proprietary Component 3:				
LD50	Oral	Rat	430 mg/kg	
LC50	Inhalation	Rat	1.11 mg/l	1 hour
Proprietary Component 1:				
LD50	Oral	Rat	3450 mg/kg	
LD50	Dermal	Rabbit	>2000 mg/kg	
LDC0	Inhalation	Rat	>2 mg/l	4 hours
Proprietary Component 2:				
LD50	Oral	Rat	No Data Available	
LD50	Dermal	Rabbit	No Data Available	
LDC0	Inhalation	Rat	No Data Available	

Toxicological effects:

Acute Toxicity:

Mixture:

No information available.

Skin Corrosion/Irritation:

Mixture:

No information available.

Serious Eye Damage/Irritation:

Mixture:

No information available.

Respiratory sensitization:

Mixture:

This material may cause respiratory sensitization.

Skin sensitization:

Mixture:

No information available.

Germ cell mutagenicity:

Mixture:

No information available.

Carcinogenicity:

Mixture:

This product is considered to be a potential carcinogen by:

NTP: No

OSHA: No

IARC: No

Reproductive toxicity:

Mixture:

No information available.

STOT-single exposure:

Mixture:

No information available.

STOT-repeated exposure:

Mixture:
No information available.

Aspiration hazard:

Mixture:
This product is not an aspiration hazard.

Additional information:

None.

Section 12 Ecological Information

Ecotoxicity:

No information available.

Numerical measures of ecotoxicity:

Components	Type	Species	Dose	Notes
Proprietary Component 1:				
Fish	LC50		No Data Available	
Invertebrates	EC50		No Data Available	
Algae	EC50		No Data Available	
Proprietary Component 2:				
Fish	LC50		No Data Available	
Invertebrates	EC50		No Data Available	
Algae	EC50		No Data Available	
Proprietary Component 3:				
Fish	LC50		No Data Available	
Invertebrates	EC50		No Data Available	
Algae	EC50		No Data Available	
Proprietary Component 4:				
Fish	LC50		No Data Available	
Invertebrates	EC50		No Data Available	
Algae	EC50		No Data Available	

Persistence and degradability:

Mixture:
No information available.

Bioaccumulative potential:

Mixture:
No information available.

Mobility in soil:

Mixture:
No information available.

Other adverse effects:

Mixture:
No information available.

Additional information:

No information available.

Section 13 Disposal Considerations

Disposal instructions:

Dispose of material in accordance with all federal, state and local regulations.

Contaminated packaging:

Triple rinse container and offer for recycling. Dispose of container following all federal, state and local regulations.

Additional Information:

No additional information available.

Section 14 Transport Information

DOT:

UN number: UN3262

UN proper shipping name: UN3262, Corrosive Solid, Basic, Inorganic, N.O.S. (Sodium Hydroxide), 8, PGII

Class: 8

Subsidiary Risk: none

Label(s): 8

Packing group: II

Packaging exceptions: none

Section 15 Regulatory Information

Federal regulations:

SARA 311/312 Hazard categories:

Immediate (Acute) Health Hazard.

Immediate (Acute) Health Hazard.

Delayed (Chronic) Health Hazard.

Reactivity Hazard.

SARA 302 Extremely hazardous substance:

Proprietary Component 1.

SARA 304 Emergency release notification:

Proprietary Component 1.

SARA 311/312 Hazardous chemical:

Yes.

SARA 313 Toxic Release Inventory (TRI) report:

Not listed.

CERCLA Hazardous substance list:

Proprietary Component 1

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):

This chemical is not a pesticide product.

Clean Air Act regulated substances:

None.

Clean Water Act regulated substances:

None.

U.S. state regulations:

Massachusetts RTK Substances:

Proprietary Component 1 Listed.

New Jersey RTK Substances:

Proprietary Component 1 Listed.

Pennsylvania RTK Substance:

Proprietary Component 1 Listed.

WHMIS classification:

Not classified.

Section 16 Other Information

HMIS hazard ID:

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	H

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *-Chronic health effect

NFPA hazard ID:

Flammability:



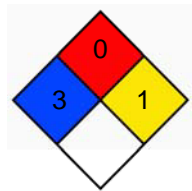
Health:



Reactivity:



Special hazard:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Disclaimer:

This Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.