

Safety Data Sheet

Section 1 Identification

Trade Name: Dura 100
Product Identification: PR-DURA100
Synonyms: None
Product Use Description: Plating Additive

Date Prepared: 2/24/22
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:

Skin Corrosion/Irritation: Category 1B
Serious Eye Damage/Irritation: Category 1
Respiratory Sensitization: Category 1
Germ Cell Mutagenicity: Category 1B
Carcinogenicity: Category 1A
Reproductive Toxicity: Category 1
Specific Target Organ Toxicity Chronic: Category 1

GHS label elements:



Health Hazard Corrosive

Signal Word: Danger

Hazard Statements:

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340 May cause genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements:**Prevention**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe mist, vapours or spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves, protective clothing and eye protection or face protection.
- P284 Wear respiratory protection.

Response

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse SKIN with water.
- P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice.
- P310 Immediately call a POISON CENTER or physician.
- P314 Get medical advice if you feel unwell.
- P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or physician.
- P362 + P364 Take off contaminated clothing and wash before reuse.

Storage

- P405 Store locked up.

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 #	%
Hydrofluorosilicic Acid		16961-83-4	5 - 10
Sodium Dichromate		7789-12-0	1 - 5

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:

Move to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulty occurs or persists seek medical attention. If not breathing give artificial respiration and seek immediate medical attention.

Skin contact:

Immediately flush exposed skin with water for at least 15 minutes while removing contaminated clothing and/or shoes. Seek immediate medical attention.

Eye contact:

Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. Check for and remove any contact lenses if easy to do. Seek immediate medical attention.

Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

Most important symptoms and effects both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media:

Use alcohol foam, carbon dioxide, dry chemical or water spray. Use water spray to cool fire exposed containers.

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. Contain spilled material and prevent run-off onto ground or into water sources or sewers.

Methods and material for containment and cleaning up:

Absorb on inert material and place in containers for disposal. Dispose of spilled/collected material in accordance with all federal, state and local regulations.

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
Hydrofluorosilicic Acid	ACGIH TLV	TWA	2.5 mg/m3	
	OSHA PEL	PEL	2.5 mg/m3	
Sodium Dichromate	ACGIH TLV	TWA	0.05 mg/m3	
	OSHA PEL	8h TWA	0.05 mg/m3	

Appropriate Engineering Controls:

Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or exposure limits. An eyewash and safety shower should be available in the work area.

Individual protection measures:

Eye/face protection:

Chemical goggles or face shield should be worn when handling this material.

Skin protection:**Hand Protection:**

Wear chemical resistant gloves when handling.

Other:

Wear chemical resistant clothing or chemical splash suit when handling.

Respiratory Protection:

Wear respiratory protection if mist or vapor is produced, while using this material.

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	Clear Orange Liquid
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting/freezing point	Not available.
Initial boiling point	Not available.
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	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility in water	Complete
PC: n-octanol/water	Not available.
Auto-Ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Density	Not available.
Specific gravity	1.06

Section 10 Stability and Reactivity

Reactivity:	Not reactive under normal use conditions. May react vigorously with organic and combustible materials.
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 excessive heating, freezing and chemical contamination.
Decomposition products:	No decomposition products are expected under normal storage and handling conditions.
Incompatible materials:	Avoid contact with reducing agents, metals, organic materials and excessive heat.

Section 11 Toxicological Information

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

May be toxic if inhaled. May cause respiratory irritation.

Skin Contact:

This material is toxic and can cause serious skin irritation and burns.

Eye Contact:

This material can cause serious eye irritation and burns.

Ingestion:

This material is toxic and may cause burns to mouth, throat and stomach.

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
Sodium Dichromate:				
LD50	Oral	Rat	50 mg/kg	
Hydrofluorosilicic Acid:				
LD50	Oral	Rat	430 mg/kg	
LC50	Inhalation	Rat	1.11 mg/l	1 hr

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:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization:

Mixture:

No information available.

Germ cell mutagenicity:

Mixture:

May alter genetic material.

Carcinogenicity:

Mixture:

This product is considered to be a potential carcinogen by:

NTP: Yes

OSHA: No

IARC: Yes

Reproductive toxicity:

Mixture:

This product may cause reproductive and developmental effects.

STOT-single exposure:

Mixture:

No information available.

STOT-repeated exposure:

Mixture:

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard:

Mixture:

This product is not an aspiration hazard.

Additional information:

None.

Section 12 Ecological Information

Ecotoxicity:

Very toxic to aquatic life with long lasting effects.

Numerical measures of ecotoxicity:

Components	Type	Species	Dose	Notes
Sodium Dichromate:			No Data Available	
Hydrofluorosilicic Acid:			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:

Do not allow material to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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: UN1778

UN proper shipping name: UN1778, Fluorosilicic Acid Solution, 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.

Delayed (Chronic) Health Hazard.

Reactivity Hazard.

SARA 302 Extremely hazardous substance:

Hydrofluorosilicic Acid.

SARA 304 Emergency release notification:

Hydrofluorosilicic Acid.

SARA 311/312 Hazardous chemical:

Yes.

SARA 313 Toxic Release Inventory (TRI) report:

Hydrofluorosilicic Acid.

Sodium Dichromate.

CERCLA Hazardous substance list:

Hydrofluorosilicic Acid Listed.

Sodium Dichromate Reportable Quantity: 10 lbs.

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:

Sodium Dichromate Reportable Quantity: 10 lbs.

U.S. state regulations:

Massachusetts RTK Substances:

Hydrofluorosilicic Acid Listed.

New Jersey RTK Substances:

Hydrofluorosilicic Acid Listed.

Pennsylvania RTK Substance:

Hydrofluorosilicic Acid Listed.

Rhodes Island RTK Substances:

Hydrofluorosilicic Acid Listed.

Canadian regulations:

Canadian Ingredient Disclosure List substances:

None listed.

WHMIS classification:

Not classified.

Section 16 Other Information

HMIS hazard ID:

HEALTH	3
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	J

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

NFPA hazard ID:

Flammability:



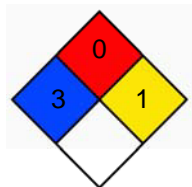
Health:



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.