



Section 1: Identification of the Substance/Mixture and of the Company Undertaking

1.1 Product identifier

Product Name: Series 100, 200, 300, 500, R, RMA, RA, NC, NCLR, Rosin Based Paste Flux
Product Description: Rosin Based Paste Flux
Synonym: FluxPlus

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

Product Restrictions: Paste Flux

1.3 Supplier's details

Manufacturer Name: Nordson EFD LLC
Manufacturer Address 1: 40 Catamore Boulevard
Manufacturer City: East Providence
Manufacturer State: Rhode Island
Manufacturer Zip Code: 02914
Manufacturer Country: USA
Business Phone: +1-401-431-7000
Other Phone: ChemTel: Outside of the US, Canada, Puerto Rico and the U.S. Virgin Islands:
+01-813-248-0585
China: 400-120-0751
Brazil: 0-800-591-6042
India: 000-800-100-4086
Mexico: 01-800-099-0731

Distributor: EFD International
Distributor Address 1: Unit 14, Apex Business Centre Boscombe Road
Distributor City: Dunstable, Bedfordshire
Distributor State: LU5 4SB England
Distributor Web: efdproductcompliance@nordsonefd.com

1.4 Emergency phone number

Emergency Phone: ChemTel Contract# MIS1138399
United States, Canada, Puerto Rico, and the U.S. Virgin Islands free phone number:
1-800-255-3924

Revision Date: 2019-02-05 16:10:24

Notes from Section 1: Conforms to Regulation (EC) No. 1907/2006 (REACH)

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

GHS Class Phrases: Skin Irritation Category 2
Serious Eye Damage, category 1

2.2 Label elements:



Signal Words: DANGER.

Hazard Statements: Causes skin irritation.
H318 - Causes serious eye damage.

Precautionary Statements: P264 - Wash { ... } thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P321 - Specific treatment (see {...} on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.

2.3 Other hazards

Other Potential Health Effects: Exposures to soldering fumes and vapors may be irritating to eyes, respiratory system, and skin.

Section 3: Composition/Information on Ingredients

3.2 Mixtures:

Ingredient Name	CAS Number	Ingredient Percent	EC Number	Comments
Hydrogenated Rosin	65997-06-0	48.0 - 48.9		
Eye Irrit. 2				
Diethanol amine	111-42-2	0 - 0.8		
Acute Oral 4 Skin Irrit. 2 Eye Dam. 1 Carcin. 2 STOTRE2_ri				
Salicylic acid	69-72-7	0 - 1.5		
Acute Oral 4 Acute Dermal 4 Eye Dam. 1				
Azelaic acid	123-99-9	0 - 1.6		
Aqua Ch. 3				
alpha-Terpineol	98-55-5	36.5 - 40.6		
Eye Irrit. 2				
tetramethydecynediol ethoxylate	9014-85-1	0 - 0.7		
Eye Irrit. 2 STOTSE3				
Malonic acid	141-82-2	0 - 2.2		
Acute Oral 4 Eye Dam. 1				
Proprietary	Proprietary	4 - 16		

Section 4: First Aid Measures

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.

Skin Contact: Immediately wash skin with soap and plenty of water.
Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Other First Aid: Exposures to soldering fumes and vapors may be irritating to eyes, respiratory system, and skin.

4.3 Indication of immediate medical attention and special treatment needed

Note To Physicians: Provide general supportive measures and treat symptomatically.

Section 5: Firefighting Measures

5.1 Extinguishing media

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Byproducts: May form carbon monoxide, carbon dioxide or other toxic fumes. At high temperatures, metallic vapors may be liberated.

Unusual Fire Hazards: Flux in solder may burn if soldering is done with a flame

Sensitivity To Impact: Do not use a solid water stream as it may scatter and spread fire.

5.3 Advice for firefighters

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Fire: 1

NFPA Health: 2

NFPA Reactivity: 0

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Avoid inhaling vapors, mists, or fumes. Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

6.3 Methods and materials for containment and cleaning up

Methods for Containment: Melted flux will solidify on cooling and can be scraped up.

Methods for Cleanup: Solidified flux can be scraped up upon cooling.

6.4 Reference to other sections

Other Spill Precautions: Refer to Section 8 for information on personal protection equipment.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Handling:	Use with adequate ventilation. Avoid breathing vapor and fumes. Use only in accordance with directions.
Special Handling:	Do not use in areas without adequate ventilation.
Hygiene Practices:	Avoid inhaling vapors, mists, or fumes.,Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage:	Store between 4° and 10°C (40° and 50°F). Keep container closed. Do not store with foodstuffs
-----------------	---

7.3 Specific end use(s)

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

8.2 Exposure controls

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.,Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye Protection:	Safety glasses with side-shields.
Hand Protection:	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.
Respiratory Protection:	When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self- contained breathing apparatus should be worn.
Hygiene Practices:	Avoid inhaling vapors, mists, or fumes.,Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical and chemical properties

Physical State:	Gel or liquid
Color:	Amber
Odor:	Mild.
pH:	Not determined.
Melting Temperature:	N/A
Boiling Temperature:	124-198°C (255 - 388 deg F)
Flash Point:	> 76 °C (>169 °F)
Ignition Temperature:	Not determined.
Lower Flammable Limit:	Not determined.
Upper Flammable Limit:	Not determined.
Vapor Pressure:	Not determined.
Vapor Density:	Not determined.
Density:	~1.0 g/cm ³ (@ 20 °C (68 °F))
Solubility:	Insoluble
Evaporation Rate:	Not determined.
Partition Coefficient:	Not determined.

Percent Volatile:	Not determined.
VOC Content:	Not determined.
Viscosity:	400-1000kcPs

9.2 Other information

Note from Section 9:	None.
-----------------------------	-------

Section 10: Stability and Reactivity

10.1 Reactivity

Reactivity:	Not applicable.
--------------------	-----------------

10.2 Chemical Stability

Chemical Stability:	Stable under normal temperatures and pressures.
----------------------------	---

10.3 Possibility of hazardous reactions

Hazardous Polymerization:	Not reported.
----------------------------------	---------------

10.4 Conditions To Avoid

Conditions To Avoid:	High temperatures, high humidity
-----------------------------	----------------------------------

10.5 Incompatible Materials

Incompatible Materials:	Strong oxidizers
--------------------------------	------------------

Section 11: Toxicological Information

11.1 Information on toxicological effects

Salicylic acid:

Skin Toxicity:	Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: >2 gm/kg [Liver - Other changes Skin and Appendages - Hair] (RTECS)
-----------------------	---

Azelaic acid:

Eye Toxicity:	Administration into the eye - Rabbit Standard Draize test: 3 mg [Mild] (RTECS)
----------------------	--

Ingestion Toxicity:	Oral - Rat LD50 - Lethal dose, 50 percent kill: >5 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
----------------------------	---

Hydrogenated Rosin:

Ingestion Toxicity:	Oral - Rat LD50 - Lethal dose, 50 percent kill: >32000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
----------------------------	---

alpha-Terpineol:

Ingestion Toxicity:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 3.2 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
----------------------------	--

Potential Health Effects:	Exposures to soldering fumes and vapors may be irritating to eyes, respiratory system, and skin.
----------------------------------	--

Product:

Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
---------------------------	------------------------------------

Section 12: Ecological Information

12.1 Ecotoxicity**Product:**

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Effect of Material On Plant/Animal: In high concentrations, this product may be dangerous to plants and animals.

12.2 Persistence and degradability**Product:**

Biodegradation: Flux is biodegradable.

12.3 Bioaccumulative potential**Product:**

BioAccumulation: Not determined.

12.4 Mobility in soil**Product:**

Mobility In Environmental Media: Not determined.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

Section 14: Transport Information

DOT Shipping Name: Not Regulated.

DOT UN Number: Not Regulated.

IMDG Shipping Name: Not Regulated.

IMDG UN Number: Not Regulated.

IATA Shipping Name: Not Regulated.

IATA UN Number: Not Regulated.

RID/ADR Shipping Name: Not Regulated.

RID/ADR UN Number: Not Regulated.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**Regulatory - Product Based:****Canada WHMIS:**

Controlled - Class E - Corrosive material.

Canada Reg. Status:

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 the Controlled Products Regulations.

Prop 65:

WARNING: This product can expose you to chemicals including Diethanolamine, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Regulatory - Ingredient Based:

Hydrogenated Rosin:

Canada DSL: Listed

TSCA Inventory Status: Listed

Salicylic acid:

Canada DSL: Listed

TSCA Inventory Status: Listed

Azelaic acid:

Canada DSL: Listed

TSCA Inventory Status: Listed

alpha-Terpineol:

Canada DSL: Listed

TSCA Inventory Status: Listed

Malonic acid:

Canada DSL: Listed

TSCA Inventory Status: Listed

15.2 Chemical Safety Assessment

Section 16: Additional Information

Revision Date: 2019-02-05 16:10:24

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Additionally, Nordson EFD LLC assumes no responsibility for injury to the end user proximately caused by the material even if reasonable safety procedures are followed. The end user assumes the risk in his use of this material.

HMIS:

Health	2
Flammability	1
Reactivity	0
PPE	X

Chronic Health Hazard

Copyright © 1996-2019 Enviance Inc. All Rights Reserved.