

SAFETY DATA SHEET

Issue Date 01-Dec-2015 Revision Date 01-Dec-2015 Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name Rust-D NL406

Other means of identification

SDS# JC-013-015

Details of the supplier of the safety data sheet

Company Name

Newline Industries LLC
111 Highline Drive

Longwood, FL 32750 407-480-5464

Emergency telephone number

Emergency Telephone INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Harmful if swallowed Toxic in contact with skin Causes severe skin burns and eye damage May be corrosive to metals



Appearance Clear Physical state Liquid Odor Acidic

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

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 or doctor/physician

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Ammonium Fluoride	12125-01-8	3-7	*
Hydrofluoric Acid	7664-39-3	1-5	*
Phosphoric Acid	7664-38-2	1-5	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice Immediate medical attention is required.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

Eye contact Keep eye wide open while rinsing. Immediate medical attention is required. Rinse

immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub

affected area.

Inhalation Remove to fresh air. Call a physician or poison control center immediately. If not breathing,

give artificial respiration. If breathing is difficult, give oxygen.

Ingestion Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an

unconscious person. Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or

poison control center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Any additional important symptoms and effects are described in Section 11: Toxicology

Information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Self-protection of the first aider

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment as required. Evacuate personnel to safe areas. Avoid

contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. Should not be

released into the environment. Prevent further leakage or spillage if safe to do so. Prevent

product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning upDike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take

up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces

with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed

systems.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in

properly labeled containers.

Incompatible materials Incompatible with strong acids and bases. Incompatible with oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium Fluoride	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F
12125-01-8		TWA: 2.5 mg/m³ dust	_
		(vacated) TWA: 2.5 mg/m ³	
Hydrofluoric Acid	TWA: 0.5 ppm F TWA: 2.5 mg/m ³ F	TWA: 3 ppm F TWA: 2.5 mg/m ³ F	IDLH: 30 ppm
7664-39-3	S*	TWA: 2.5 mg/m ³ dust	Ceiling: 6 ppm 15 min
	Ceiling: 2 ppm F	(vacated) TWA: 3 ppm F (vacated)	Ceiling: 5 mg/m ³ 15 min
		TWA: 2.5 mg/m ³	TWA: 3 ppm
		(vacated) STEL: 6 ppm F	TWA: 2.5 mg/m ³
Phosphoric Acid	STEL: 3 mg/m ³	TWA: 1 mg/m ³	IDLH: 1000 mg/m ³
7664-38-2	TWA: 1 mg/m ³	(vacated) TWA: 1 mg/m³	TWA: 1 mg/m ³
	-	(vacated) STEL: 3 mg/m ³	STEL: 3 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d

962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers, Eyewash stations & Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded

or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators or air purifying respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in

accordance with current local regulations.

General Hygiene When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep

away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing

and wash it before reuse. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear
Color Colorless
Odor Acidic

Odor threshold No Information available

Property Values Remarks • Method

pH <1 Specific Gravity 1.01

Viscosity <25 cP @ 25°C

Melting point/freezing point No Information available

Flash point None
Boiling point / boiling range >=212 ° F

Evaporation rateNo Information available **Flammability (solid, gas)**No data available

Flammability Limits in Air

Upper flammability limit:No Information availableLower flammability limit:No Information availableVapor pressureNo Information availableVapor densityNo Information available

Water solubility Complete

Partition coefficientNo Information availableAutoignition temperatureNo Information availableDecomposition temperatureNo Information available

Other Information

Density Lbs/Gal 8.42

VOC Content (%) Not Applicable

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Exposure to air or moisture over prolonged periods.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful by inhalation, ingestion, in contact with eyes and skin.

Inhalation Avoid breathing vapors or mists. Breathing of vapor can cause respiratory irritation and

inflammation. Breathing of mist or liquid can cause burns to the respiratory tract.

Eye contact Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including

blindness.

Skin ContactToxic in contact with skin. Corrosive. Contact with skin may cause severe irritation and

burns.

Ingestion Harmful if swallowed. May be fatal if swallowed. Can burn mouth, throat, and stomach.

Ingestion causes acute irritation and burns to the mucous membranes of the mouth,

trachea, esophagus and stomach.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrofluoric Acid 7664-39-3	-	-	= 0.79 mg/L (Rat)1 h
Phosphoric Acid 7664-38-2	= 1530 mg/kg(Rat)	= 2740 mg/kg(Rabbit)	> 850 mg/m³(Rat)1 h

Information on toxicological effects

Symptoms No Information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicityNo Information available.
No Information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium Fluoride	-	Group 3	-	-
12125-01-8				

IARC (International Agency for Research on Cancer)

Group 3 -Not classifiable as a human carcinogen

Target organ effects

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No Information available.
No Information available.

Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw

necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure.

Possible risk of irreversible effects. EYES, Respiratory system, Skin.

Aspiration hazard No Information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 661.00 mg/kg
ATEmix (dermal) 728.00 mg/kg
ATEmix (inhalation-gas) 55,883.15 mg/l
ATEmix (inhalation-dust/mist) 5.48 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ammonium Fluoride	-	364.0: 96 h Pimephales promelas	-
12125-01-8		mg/L LC50 static	
Hydrofluoric Acid	-	660: 48 h Leuciscus idus mg/L LC50	270: 48 h Daphnia species mg/L

Rust-D

7664-39-3			EC50
Phosphoric Acid	-	3 - 3.5: 96 h Gambusia affinis mg/L	4.6: 12 h Daphnia magna mg/L
7664-38-2		LC50	EC50

Persistence and degradability

No Information available.

Bioaccumulation

Bioaccumulative potential.

Chemical Name	Partition coefficient
Hydrofluoric Acid	-1.4
7664-39-3	

Other adverse effects No Information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrofluoric Acid	U134	-	-	U134
7664-39-3				

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Ammonium Fluoride	Toxic
12125-01-8	Corrosive
Phosphoric Acid	Corrosive
7664-38-2	

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

UN/ID No. UN2922

Proper shipping name Corrosive liquids, toxic, n.o.s.

Hazard Class 8
Subsidiary class 6.1
Packing Group III

Special Provisions IB3, T7, TP1, TP28

Description UN2922, Corrosive liquids, toxic, n.o.s. (contains Ammonium Bifluoride), 8, 6.1, III

Emergency Response Guide 154

Number

TDG

UN2922

Proper shipping name Corrosive liquids, toxic, n.o.s.

Hazard Class 8
Subsidiary class 6.1

Packing Group III

Description UN2922, Corrosive liquids, toxic, n.o.s. (contains Ammonium Bifluoride), 8, 6.1, III

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Ammonium Fluoride - 12125-01-8	1.0
Hydrofluoric Acid - 7664-39-3	1.0

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium Fluoride 12125-01-8	100 lb	-	-	Х
Hydrofluoric Acid 7664-39-3	100 lb	-	-	Х
Phosphoric Acid 7664-38-2	5000 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Che	mical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammo	onium Fluoride	100 lb		RQ 100 lb final RQ
1	2125-01-8			RQ 45.4 kg final RQ
Hyd	rofluoric Acid	100 lb	100 lb	RQ 100 lb final RQ
1	7664-39-3			RQ 45.4 kg final RQ
Pho	sphoric Acid	5000 lb	-	RQ 5000 lb final RQ
7	7664-38-2			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

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Rust-D

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ammonium Fluoride 12125-01-8	X	X	Х
Hydrofluoric Acid 7664-39-3	X	X	Х
Phosphoric Acid 7664-38-2	X	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and Chemical

HMIS Health hazards 3 Flammability 0 Physical hazards 0 Personal protection C

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Revision Note

No Information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet
