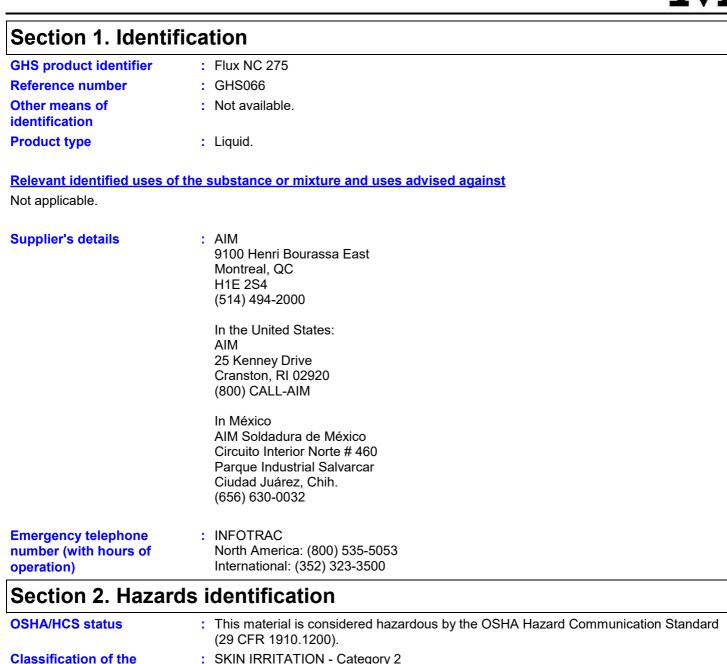
# SAFETY DATA SHEET

Flux NC 275



: SKIN IRRITATION - Category 2 **EYE IRRITATION - Category 2A** 

**GHS label elements** 

substance or mixture

**Hazard pictograms** 



Signal word	: Warning
Hazard statements	: Causes skin irritation. Causes serious eye irritation.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or fa
Response	: Take off contaminated clothing and was

ace protection. Wash thoroughly after handling.

sh it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Date of issue/Date of revision : 6/7/2021

Date of previous issue

: 4/7/2021



### Section 2. Hazards identification

Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise	: None known.
classified	

# Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Other means of	:	Not available.
identification		

Ingredient name	%	CAS number
glutaric acid	<3	110-94-1
adipic acid	≤3	124-04-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important sympton	ns/effects, acute and delayed
Potential acute health e	effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	· Causas skip irritation

Skin contact : Causes skin irritation.

#### Ingestion : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation
	watering redness

Date of	' issue/Date	of revision	: 6/7/2021

#### Section 4. First aid measures Inhalation : No specific data. Skin contact : Adverse symptoms may include the following: irritation redness Ingestion : No specific data. Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician quantities have been ingested or inhaled. **Specific treatments** : No specific treatment. **Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and
	place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 12). Dispose africa eligenet durate disposal according to local regulations
	(see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

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#### **Occupational exposure limits**

Ingredient name	Exposure limits
glutaric acid adipic acid	None. ACGIH TLV (United States, 3/2020). TWA: 5 mg/m³ 8 hours.

Appropriate engineering controls Environmental exposure controls		Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	es	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		

Date of previous issue

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# Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Color	1	Not available.
Odor	:	Odorless.
Odor threshold	:	Not available.
рН	:	3.69
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	[Product does not sustain combustion.]
Evaporation rate	:	Not available.
Flammability (solid, gas)	1	Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Lower and upper explosive (flammable) limits	1	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.005 to 1.007
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	1	Not applicable.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Flow time (ISO 2431)	:	Not available.

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
Chemical stability	: The product is stable.	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	

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# Section 10. Stability and reactivity

Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.

Hazardous decomposition	: Under normal conditions of storage and use, hazardous decomposition products should
products	not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
glutaric acid	LD50 Dermal LD50 Oral	Rabbit Rat	>10000 mg/kg 2750 mg/kg	-
adipic acid	LD50 Dermal LD50 Oral	Rabbit Rat	>7940 mg/kg 5050 mg/kg	- -

#### Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Skin - Mild irritant Eyes - Mild irritant Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit Rabbit Babbit		0.5 g 10 mg 24 hours 20 mg 0.25 g	- - -
	Skin - Mild irritant Eyes - Mild irritant	Skin - Mild irritantRabbitEyes - Mild irritantRabbitEyes - Moderate irritantRabbit	Skin - Mild irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Moderate irritantRabbit-	Skin - Mild irritantRabbit-0.5 gEyes - Mild irritantRabbit-10 mgEyes - Moderate irritantRabbit-24 hours 20 mg

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

#### **Conclusion/Summary**

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

: Not available.

: None have been reported.

#### Potential acute health effects

: Causes serious eye irritation.
: No known significant effects or critical hazards.
: Causes skin irritation.
: No known significant effects or critical hazards.

Date of issue/Date of revision

# Section 11. Toxicological information

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Symptoms related to the physical, chemical and toxicological characteristics				
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness			
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms may include the following: irritation redness			
Ingestion	: No specific data.			
Delayed and immediate effect	ts and also chronic effects from short and long term exposure			
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health effe Not available.	ects			
General	: No known significant effects or critical hazards.			

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates Not available.

# Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
adipic acid	Acute LC50 97000 μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
glutaric acid	-0.29	-	low
adipic acid	0.093	3.162	low

# Section 12. Ecological information

#### Mobility in soil

Soil/water p	oartition
coefficient	(Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

U.S. Federal regulations	: United States inventory (TSCA 8b): Not determined.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed

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# Section 15. Regulatory information

Clean Air Act Section 602	
Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
State regulations	
Massachusetts	: The following components are listed: ADIPIC ACID
New York	: The following components are listed: Adipic acid
New Jersey	: The following components are listed: ADIPIC ACID; HEXANEDIOIC ACID
Pennsylvania	: The following components are listed: HEXANEDIOIC ACID
<u>California Prop. 65</u>	
This product does not requi	re a Safe Harbor warning under California Prop. 65.
International regulations	
Chemical Weapon Convent	tion List Schedules I, II & III Chemicals
Not listed.	
Montreal Dratecal	
Montreal Protocol	
Not listed.	
Not listed.	Persistent Organic Pollutants
Not listed. Stockholm Convention on	Persistent Organic Pollutants
Not listed. Stockholm Convention on Not listed.	
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Not listed.  Stockholm Convention on Not listed.  Rotterdam Convention on Not listed.  UNECE Aarhus Protocol or Not listed.  International lists National inventory Australia Canada	Prior Informed Consent (PIC)  POPs and Heavy Metals  All components are listed or exempted. All components are listed or exempted.
Not listed. Stockholm Convention on Not listed. Rotterdam Convention on Not listed. UNECE Aarhus Protocol or Not listed. International lists National inventory Australia Canada China	Prior Informed Consent (PIC)  POPs and Heavy Metals  All components are listed or exempted. All components are listed or exempted. Not determined.
Not listed. Stockholm Convention on Not listed. Rotterdam Convention on Not listed. UNECE Aarhus Protocol or Not listed. International lists National inventory Australia Canada China Europe	<ul> <li>Prior Informed Consent (PIC)</li> <li>POPs and Heavy Metals</li> <li>All components are listed or exempted.</li> <li>All components are listed or exempted.</li> <li>Not determined.</li> <li>Not determined.</li> <li>Japan inventory (CSCL): Not determined.</li> </ul>
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Not listed.         Stockholm Convention on         Not listed.         Rotterdam Convention on I         Not listed.         UNECE Aarhus Protocol or         Not listed.         International lists         National inventory         Australia         Canada         China         Europe         Japan         Malaysia         New Zealand         Philippines	<ul> <li>Prior Informed Consent (PIC)</li> <li>POPs and Heavy Metals</li> <li>All components are listed or exempted.</li> <li>All components are listed or exempted.</li> <li>Not determined.</li> <li>Not determined.</li> <li>Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.</li> <li>Not determined.</li> <li>Not determined.</li> <li>Not determined.</li> <li>All components are listed or exempted.</li> </ul>

### Section 16. Other information

### Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)

### Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

	Classification	Justification	
SKIN IRRITATION - Categor EYE IRRITATION - Categor		Calculation method Calculation method	
<u>History</u>			
Date of printing	: 6/7/2021		
Date of issue/Date of revision	: 6/7/2021		
Date of previous issue	: 4/7/2021		
Version	: 0.08		
Prepared by	<ul> <li>AIM, 25 Kenney Drive, Cranston, RI, (USA), 02920 (800) CALL-AIM [800-225-5246] AIM , 9100 Henri-Bourassa east, Montreal, Queb (514) 494-2000</li> </ul>		
Key to abbreviations	IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition MARPOL = International Convention for the Preve	BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)	
References	-ACGIH, Threshold Limit Values, 1994-1995Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List"CFR29, OSHA's Permissible Exposure Limits, revision July, 1993 CFR29, part 1910.1200, Hazard CommunicationCHEMTOX database -Components manufacturer's Material Safety Data SheetCRC Handbook of chemistry and physics, 67 th edition, CRC Press inc., Boca Raton, FloridaCSST (Comission de Santé et Sécurité au Travail), document #RT-12: Classification of Certain Chemical Substances. -IATA, Dangerous Goods Regulations, 37th edition (January 1, 1996) -NFPA, Fire Protection Guide to Chemical Hazards, 11th editionNIOSH, Pocket Guide to Chemical Hazards, revision June 1994. Sigma-Alrich handbook of fine chemicals, 1998		

Indicates information that has changed from previously issued version.

Notice to reader

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### Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.