



## MATERIAL SAFETY DATA SHEET

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Difluoroacetic Acid, 98%

ACC# 98097

### Section 1 - Chemical Product and Company Identification

MSDS Name: Difluoroacetic Acid, 98%

Catalog Numbers: AC162120000, AC162120025, AC162120100

Synonyms:

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
381-73-7	Difluoroacetic Acid	98	206-839-0

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: clear, colorless liquid. Flash Point: 78 deg C.

**Danger!** Corrosive. Lachrymator (substance which increases the flow of tears). May cause eye and skin irritation with possible burns. **Combustible liquid and vapor.** May cause respiratory and digestive tract irritation and possible burns.

Target Organs: None.

#### Potential Health Effects

**Eye:** Contact with eyes may cause severe irritation, and possible eye burns.

**Skin:** May cause severe skin irritation with possible burns, especially if skin is wet or moist.

**Ingestion:** May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.

**Inhalation:** May cause severe respiratory tract irritation and possible burns.

**Chronic:** Not available.

### Section 4 - First Aid Measures

**Eyes:** Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

**Skin:** Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.



**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.  
**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen.  
**Notes to Physician:** Treat symptomatically and supportively.

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### Section 5 - Fire Fighting Measures

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**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustible liquid.  
**Extinguishing Media:** Use agent most appropriate to extinguish fire.  
**Flash Point:** 78 deg C ( 172.40 deg F)  
**Autoignition Temperature:** Not available.  
**Explosion Limits, Lower:**Not available.  
**Upper:** Not available.  
**NFPA Rating:** Not published.

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### Section 6 - Accidental Release Measures

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**General Information:** Use proper personal protective equipment as indicated in Section 8.  
**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

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### Section 7 - Handling and Storage

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**Handling:** Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.  
**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area.

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### Section 8 - Exposure Controls, Personal Protection

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**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.  
**Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Difluoroacetic Acid	none listed	none listed	none listed

**OSHA Vacated PELs:** Difluoroacetic Acid: No OSHA Vacated PELs are listed for this chemical.

#### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
**Skin:** Wear appropriate protective gloves to prevent skin exposure.  
**Clothing:** Wear appropriate protective clothing to prevent skin exposure.  
**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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## Section 9 - Physical and Chemical Properties

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**Physical State:** Liquid  
**Appearance:** clear, colorless  
**Odor:** Not available.  
**pH:** Not available.  
**Vapor Pressure:** Not available.  
**Vapor Density:** Not available.  
**Evaporation Rate:** Not available.  
**Viscosity:** Not available.  
**Boiling Point:** 132 - 134 deg C @ 760.00mm Hg  
**Freezing/Melting Point:** -1 deg C  
**Decomposition Temperature:** Not available.  
**Solubility:** Not available.  
**Specific Gravity/Density:** 1.5260g/cm<sup>3</sup>  
**Molecular Formula:** C<sub>2</sub>H<sub>2</sub>F<sub>2</sub>O<sub>2</sub>  
**Molecular Weight:** 96.03

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## Section 10 - Stability and Reactivity

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**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Ignition sources, electrical sparks, exposure to flame.  
**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases, explosive reaction with fluorine + cesium fluoride.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, hydrogen fluoride gas.  
**Hazardous Polymerization:** Will not occur.

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## Section 11 - Toxicological Information

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**RTECS#:**  
**CAS# 381-73-7:** AG9900000  
**LD50/LC50:**  
Not available.

**Carcinogenicity:**  
**CAS# 381-73-7:** Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No data available.  
**Teratogenicity:** No data available.  
**Reproductive Effects:** No data available.  
**Mutagenicity:** No data available.  
**Neurotoxicity:** No data available.  
**Other Studies:**

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## Section 12 - Ecological Information

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No information available.

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**Section 13 - Disposal Considerations**

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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

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**Section 14 - Transport Information**

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	US DOT	Canada TDG
Shipping Name:	DOT regulated - small quantity provisions apply (see 49CFR173.4)	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

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**Section 15 - Regulatory Information**

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**US FEDERAL****TSCA**

CAS# 381-73-7 is listed on the TSCA inventory.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 381-73-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

## California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

## European/International Regulations

### European Labeling in Accordance with EC Directives

#### Hazard Symbols:

C

#### Risk Phrases:

R 34 Causes burns.

#### Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### WGK (Water Danger/Protection)

CAS# 381-73-7: No information available.

#### Canada - DSL/NDSL

CAS# 381-73-7 is listed on Canada's NDSL List.

#### Canada - WHMIS

WHMIS: Not available.

#### Canadian Ingredient Disclosure List

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