Guidechem Chemical Network - Chemical Manufacturers, suppliers, B2B Marketplace (guidechem.com) **** MATERIAL SAFETY DATA SHEET ****

2,4-Dinitrofluorobenzene, 98%

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: 2,4-Dinitrofluorobenzene, 98%

Catalog Numbers:

11703-0000, 11703-0050, 11703-0250, 11703-1000

Synonyms:

1-Fluoro-2,4-dinitrobenzene; Sanger's Reagent; DNF Company Identification (Europe): Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Company Identification (USA): Acr

Acros Organics One Reagent Lane Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01 For information in Europe, call: 0032(0) 14575211 For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in the US, call CHEMIREC: 800-424-9300 For emergencies in Europe, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

+	CAS#	Chemical Name	\ % 	 EINECS#	Haz Symbols	Risk Phrases	+
	70-34-8	2,4-Dinitrofluorobenzene	98%	200-734-3			_

Hazard Symbols: T

Risk Phrases: 23/24/25 33 40 43 44

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Limited evidence of a carcinogenic effect. May cause sensitization by skin contact. Risk of explosion if heated under confinement. Cancer suspect agent.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May cause dermatitis. Toxic in contact with skin. This material is a vesicant, that is, it will induce blistering.

Ingestion:

May cause irritation of the digestive tract. Toxic if swallowed. Inhalation:

May cause respiratory tract irritation. Toxic if inhaled.

Chronic:

Repeated exposure may cause sensitization dermatitis. Cancer suspect agent.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing

and shoes.

Ingestion:

Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Risk of explosion if heated under confinement. Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

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. Vacuum or sweep up material and place into a suitable disposal container. Remove all sources of ignition. Use a spark-proof tool.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. Storage:

Store in a cool, dry place. Store in a tightly closed container.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low. Personal Protective Equipment

Eyes:

Wear chemical goggles.

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. Always use a NIOSH or European Standard EN 149 approved

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respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid Color: yellow

Odor: Not available.
pH: Not available.
Vapor Pressure: 1mbar @20 deg C

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Viscosity:
                            Not available.
                            296 deg C
Boiling Point:
                            23 - 26 deg C
Freezing/Melting Point:
Autoignition Temperature: Not available.
Flash Point:
                            > 112 deg C (> 233.60 deg F)
Explosion Limits, lower:
                            Not available.
                            Not available.
Explosion Limits, upper:
Decomposition Temperature:
                            400 mg/l (25 • C)
Solubility in water:
Specific Gravity/Density:
                            1.480
Molecular Formula:
                            C6H3FN2O4
Molecular Weight:
                            186.1
                 **** SECTION 10 - STABILITY AND REACTIVITY ****
     Chemical Stability:
          Stable under normal temperatures and pressures.
     Conditions to Avoid:
          High temperatures, incompatible materials, ignition sources.
     Incompatibilities with Other Materials:
          Strong oxidizing agents, strong bases.
     Hazardous Decomposition Products:
          Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen fluoride
          gas.
     Hazardous Polymerization: Has not been reported.
                **** SECTION 11 - TOXICOLOGICAL INFORMATION ****
     RTECS#:
          CAS# 70-34-8: CZ7800000
     LD50/LC50:
          Not available.
     Carcinogenicity:
       2,4-Dinitrofluorobenzene -
          Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
          See actual entry in RTECS for complete information.
                  **** SECTION 12 - ECOLOGICAL INFORMATION ****
     Ecotoxicity:
          log Pow = 1.83
                 **** SECTION 13 - DISPOSAL CONSIDERATIONS ****
Dispose of in a manner consistent with federal, state, and local regulations.
                  **** SECTION 14 - TRANSPORT INFORMATION ****
     IATA
          Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.*
           Hazard Class: 6.1
              UN Number: 2811
          Packing Group: II
     TMO
          Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.
           Hazard Class: 6.1
              UN Number: 2811
          Packing Group: II
     RTD/ADR
          Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.
           Hazard Class: 6.1
              UN Number: 2811
          Packing group: II
                  **** SECTION 15 - REGULATORY INFORMATION ****
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European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

- R 33 Danger of cumulative effects.
- R 40 Limited evidence of a carcinogenic effect.
- R 43 May cause sensitization by skin contact.
- R 44 Risk of explosion if heated under confinement.

Safety Phrases:

- S 28A After contact with skin, wash immediately with plenty of water.
- S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 70-34-8: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 70-34-8 is listed on Canada's DSL List.

CAS# 70-34-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 70-34-8 is listed on the TSCA inventory.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 7/16/1996 Revision #1 Date: 1/09/2004

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