

# CAS-No.: 70-34-8 MSDS

## **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of the substa	ance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
	:
CAS-No.	: 70-34-8
Product code	: 03858
Formula	: C6H3FN2O4
Chemical structure	F $NO_2$ $NO_2$
Synonyms	: Sanger's reagent
1.2. Relevant identified uses of the	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec	: Industrial
	For professional use only

## 1.2.2. Uses advised against

No additional information available

#### **1.3.** Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]Acute toxicity (oral),H302Category 4H315Skin corrosion/irritation,H315Category 2Serious eye damage/eyeSerious eye damage/eyeH319irritation, Category 2

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Skin sensitisation, H317 Category 1 Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation Specific target organ H373 toxicity — Repeated exposure, Category 2

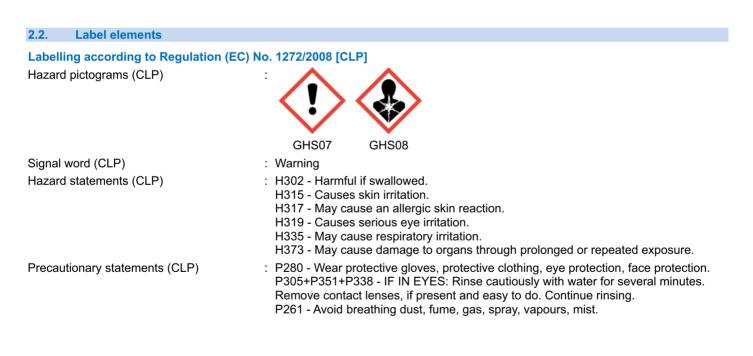
Full text of H statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22 Xi; R36/37/38 R43 R33 Full text of R-phrases: see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available



#### 2.3. Other hazards

No additional information available

# 1-FLUORO-2,4-DINITROBENZENE AR Safety Data Sheet

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Name	: 1-FLUORO-2,4-DINITROBENZENE AR
CAS-No.	: 70-34-8

Full text of R- and H-statements: see section 16

3.2. **Mixtures** Not applicable

SECT	ION 4: First aid measures	
4.1.	Description of first aid measu	
First-a	id measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.</li> </ul>
First-a	id measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).
First-a	id measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get immediate medical advice/attention.
First-a	aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.
4.2.	Most important symptoms an	d effects, both acute and delayed
Symp	toms/effects	: There are potential chronic health effects to consider.
Symp	toms/effects after inhalation	: May cause an allergic skin reaction. May cause respiratory irritation.
Symp	toms/effects after skin contact	: Causes skin irritation.
Symp	toms/effects after eye contact	: Causes serious eye irritation.
Symp	toms/effects after ingestion	: Harmful if swallowed.
4.3.	Indication of any immediate n	nedical attention and special treatment needed
Treat	symptomatically.	
SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitat	ble extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
Unsui	table extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from	the substance or mixture
No ad	ditional information available	
5.3.	Advice for firefighters	
Proteo	ction during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
Emerger	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv	ve equipment	: Use personal protective equipment as required.
Emerger	ncy procedures	: Ventilate area.

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6.2.	Environmental precautions	
Avoid rele	ease to the environment.	
6.3.	Methods and material for contain	nment and cleaning up
Methods	for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
6.4.	Reference to other sections	
No additi	onal information available	
SECTION	N 7: Handling and storage	
7.1.	Precautions for safe handling	
Precautio	ons for safe handling	: Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours.
Hygiene	measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2.	Conditions for safe storage, incl	uding any incompatibilities
Storage of	conditions	: Keep container tightly closed.
7.3.	Specific end use(s)	
No additi	onal information available	
SECTION 8: Exposure controls/personal protection		
8.1.	Control parameters	

No additional information available

8.2. Exposure controls		
Hand protection	: Protective gloves	
Eye protection	: Chemical goggles or safety glasses	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical a	and chemical properties	
9.1. Information on basic physical a Physical state	and chemical properties : Liquid	
Physical state	: Liquid	

Odour threshold: No data availablepH: No data availableRelative evaporation rate (butylacetate=1): No data availableMelting point: 27.5 - 30 °C

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Freezing point	: No data available
Boiling point	: 178 °C
Flash point	: 164 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.4718 g/cm <sup>3</sup>
Solubility	: Water: Insoluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

## 9.2. Other information

No additional information available

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
Stable ι	under normal conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Direct s	unlight. Extremely high or low temperatures.
10.5.	Incompatible materials
No addi	tional information available
10.6.	Hazardous decomposition products
No addi	tional information available
SECTIO	DN 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed.

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<b>,</b>	
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Additional information	: There are potential chronic health effects to consider
Aspiration hazard	: Not classified
Potential adverse human health effects	: Harmful if swallowed.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asse	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	· Dispose of contents/container to hazardous or special waste collection point in

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
	. Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
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## 14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

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## - Air transport

No data available

#### - Inland waterway transport

No data available

## - Rail transport

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## 15.1.1. EU-Regulations

No REACH Annex XVII restrictions 1-FLUORO-2,4-DINITROBENZENE AR is not on the REACH Candidate List 1-FLUORO-2,4-DINITROBENZENE AR is not on the REACH Annex XIV List

## 15.1.2. National regulations

## Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BlmSchV

#### Netherlands

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

## Denmark

Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product

## 15.2. Chemical safety assessment

No additional information available

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**SECTION 16: Other information** 

Full text of R-,	H- and	EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
R22	Harmful if swallowed
R33	Danger of cumulative effects
R36/37/38	Irritating to eyes, respiratory system and skin
R43	May cause sensitisation by skin contact
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product