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Trifluralin		T0928

Warning



Synonyms

a-a-a-trifluor-2,6-dinitro-N,N-dipropyl-p-toluidin
2,6-Dinitro-N,N-dipropyl-4-(trifluoromethyl)benzenamine

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Identification of the product : Raw material
Product code : T0928
Trade name : Trifluralin
CAS number : CAS No : 001582-09-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : For professional use only.
Duchefa Biochemie B.V. products are only intended for in vitro laboratory research purposes.

1.3. Details of the supplier of the safety data sheet

Company identification : Duchefa Biochemie B.V.
A. Hofmanweg 71
2031 BH Haarlem The Netherlands
Tel: +31(0)23-5319093
Fax: +31(0)23-5318027
E-mail:info@duchefa.nl

1.4. Emergency telephone number

Emergency phone nr : See www.who.int/ipcs/en/ for a local poison centre
Tel: (+31)-(0)23-5319093 (local time : 9.00 to 17.00)
National Poison Information Centre :Europe NL : +31 30 274 88 88
(this service is only available to health professionals)

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

: Xi; R36
R43
N; R50-53

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

- Health hazards : Carcinogenicity - Category 2 - Warning (CLP : Carc. 2)
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1)
- Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1)
Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (CLP : Aquatic Chronic 1)

2.2. Label elements

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SECTION 2 Hazards identification (continued)

Labelling EC 67/548 or EC 1999/45

• Symbol(s)



: Xi : Irritant
N : Dangerous for the environment

• R Phrase(s)

: R36 : Irritating to eyes.
R43 : May cause sensitization by skin contact.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• S Phrase(s)

: S24 : Avoid contact with skin.
S37 : Wear suitable gloves.
S60 : This material and its container must be disposed of as hazardous waste.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms code

: GHS08 - GHS07 - GHS09

• Signal words

: Warning

• Hazard statements

: H351 - Suspected of causing cancer.
H317 - May cause an allergic skin reaction.
H410 - Very toxic to aquatic life with long lasting effects.

• Precautionary statements

- Prevention

: P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P273 - Avoid release to the environment.

- Response

: P308+P313 - If exposed or concerned : get medical advice.

2.3. Other hazards

None under normal conditions.

SECTION 3 Composition/information on ingredients

Substance / Preparation

: Substance.
Trifluralin (ISO)
CAS No :001582-09-8
EC No :216-428-8
Annex No :609-046-00-1
Ref REACH :---

Components

: This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Trifluralin (ISO)	:	1582-09-8	216-428-8	609-046-00-1	----	Carc. Cat. 3; R40 Xi; R36 R43 N; R50-53 (M fact. = 10) ----- Carc. 1B Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1

Structural formula C₁₃H₁₆F₃N₃O₄

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SECTION 3 Composition/information on ingredients (continued)

Molecular weight (g/mol) 335.3

SECTION 4 First aid measures

4.1. Description of first aid measures

First aid measures

- Inhalation : Assure fresh air breathing. Seek medical advice.
- Skin contact : Wash skin with mild soap and water. Seek medical attention if ill effect develops.
- Eye contact : Rinse immediately with plenty of water. Seek medical advice.
- Ingestion : Rinse mouth. Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms and effects, both acute and delayed : Sleepiness.

4.3. Indication of any immediate medical attention and special treatment needed

Medical attention and special treatment needed : No data available.

SECTION 5 Fire-fighting measures

5.1. Extinguishing media

Extinguishing media : Water spray.
Dry powder.
Carbon dioxide (CO₂).
Alcohol foam.

5.2. Special hazards arising from the substance or mixture

Specific hazards : When exposed to heat, may decompose liberating hazardous gases.
NO_x
CO_x

5.3. Advice for fire-fighters

Protection against fire : Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.
Personal precautions : Wear suitable protective clothing.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

Reference to other sections : No Reference

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SECTION 7 Handling and storage

7.1. Precautions for safe handling

Handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Store at room temperature. Store in dry, well-ventilated area. Keep container closed when not in use.

7.3. Specific end use(s)

Specific end use(s) : For professional use only.
Duchefa Biochemie B.V. products are only intended for in vitro laboratory research purposes.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Industrial hygiene : Either local exhaust or general room ventilation is usually required.

8.2. Exposure controls

- Eye protection : Safety glasses.
- Skin protection : Wear suitable protective clothing.
- Hand protection : Gloves.
- Respiratory protection : P3 Suitable respiratory equipment.

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

• Appearance

Appearance : Powder.

• Odour

• Odour threshold

Odour threshold : Not established.

• pH

• Melting point / Freezing point

Melting point [°C] : No data available.

• Initial boiling point - boiling range

• Flash point

• Evaporation rate

Evaporation rate (ether=1) : No data available.

• Flammability

Flammability range [vol% in air] : No data available.

• Explosion limits (lower - upper)

Explosion limits : No data available.

• Vapour pressure

Vapour pressure [hPa] : 3.5

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SECTION 9 Physical and chemical properties (continued)

• Vapour density

Relative vapour density (air=1) : No data available.

• Relative density

Relative density : Not established.

• Solubility

Solubility in water : Insoluble.

• Partition coefficient : n-octanol / water

• Auto-ignition temperature

• Thermal decomposition

Thermal decomposition [°C] : No data available.

• Viscosity

• Explosive Properties

Explosive Properties : Not established.

• Oxidising properties

Oxidising properties : Not established.

9.2. Other information

Other data : No data available.

SECTION 10 Stability and reactivity

10.1. Reactivity

Reactivity : No data available.

10.2. Chemical stability

Stability : No data available.

10.3. Possibility of hazardous reactions

Hazardous reactions : Stable under normal conditions.

10.4. Conditions to avoid

Conditions to avoid : Protect from moisture.

10.5. Incompatible materials

Materials to avoid : Strong oxidizers.

10.6. Hazardous decomposition products

Hazardous decomposition products : When heated to decomposition, emits dangerous fumes.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

- Inhalation : Dust from this product may cause irritation to the respiratory tract.
- Dermal : Causes skin irritation.
- Ocular : Causes serious eye irritation.
- Ingestion : May be harmful if swallowed.
- Other : XU9275000 See actual entry in RTECS for complete information.

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SECTION 11 Toxicological information (continued)

- Inhalation : 2800 LC50 (Inhalation, rat)-1 h - mg/m3
- Dermal : > 5000 skin - rat - mg/kg

SECTION 12 Ecological information

12.1. Toxicity

- 48 H-LC50 - Daphnia magna [ppm] : 0.193
- 96 Hour-LC50 : 0.66 mg/l - Cyprinus carpio

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

- Bioaccumulative potential : 1.333 BCF

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

- Ecological effects information : Dangerous due to potential toxicity for the environment.
- Environmental precautions : Avoid release to the environment.
Prevent entry to sewers and public waters.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

- General : Dispose in a safe manner in accordance with local/national regulations.
- Special precautions : When not empty dispose of this container at hazardous or special waste collection point.

SECTION 14 Transport information

14.1. UN Number

- UN No. : 3077

14.2. Proper shipping name

UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)

14.3. Transport Hazard Classification

9

Labelling ADR



: 9

Land transport

- H.I. nr : 90
- Proper shipping name : UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E) N-(phosphonomethyl)-glycine

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SECTION 14 Transport information (continued)

- ADR Class : 9
- ADR Packing group : III
- Tunnel Restriction : E
- Sea transport**
- IMO-IMDG code : Class : 9
- IMO Packing group : III
- IMDG-Marine pollution : YES
- Emergency Schedule (EmS) - Fire : F-A S-F
- Air transport**
- ICAO/IATA : Packaging instructions cargo : 956
Packaging instructions passenger: 956
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. N-(
phosphonomethyl)-glycine
- Class : 9
- IATA Packing group : III

14.4. Packing group

III

14.5. Environmental hazards

In case of spillage and/or leakage : Clean up even minor leaks or spills if possible without unnecessary risk.

14.6. Special precautions for user

Emergency action in case of accident : Keep public away from danger area.
NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

Additional information : None.

14.7. Bulk transport - annex II Marpol 73/78 - IBC

Not applicable.

SECTION 15 Regulatory information

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

Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

Not established.

SECTION 16 Other information

Further information : The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
Complete SDS revision

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

End of document