

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Product Name : 3-TRIFLUOROMETHYLACETOPHENONE

Other/Generic Names : 3-Acetylbenzotrifluoride,
1-[3-(Trifluoromethyl)phenyl]ethanon
3-Trifluoromethylacetophenone

CAS No. : **349-76-8**

Product use : Laboratory chemicals, Manufacture of substances

Supplier : Deepak Nitrite Ltd.
Aaditya-I, National Highway No. 8, Chhani Road,
Vadodara - 390 024, India
Manufacturing facilities at :
Vadodara, Roha, Taloja & Hyderabad.
Contact no. : +91-9904406400

For Chemical : Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC
Emergency : Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887

2. HAZARDS IDENTIFICATION**2.1 CLASSIFICATION****Classification in accordance with the EC Directive 1999/45/EC.**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification in accordance with Regulation (EC) No 1272/2008.

Chronic aquatic toxicity: Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2 LABELLING

The product is labelled in accordance with the EC Directive on dangerous substances EC-Directive 67/548, as amended.

Classification:

Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:

- 3-(Trifluoromethyl)acetophenone

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R-phrase(s)
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Classification:
Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:

- 3-(Trifluoromethyl)acetophenone

Hazard statements
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

CAS-No. 349-76-8
EINECS-No. 206-490-4

Hazardous components

R-phrase(s) according to EC directive 67/548/EC

Hazard statements according to Regulation (EC) No. 1907/2006

Chemical Name	CAS-No. / EC-No.	Symbol(s) R-phrase(s)	Pictogram Hazard statement	Concentration [%]
3-(Trifluoromethyl)acetophenone	349-76-8 206-490-4	R52/53	H412	

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

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Inhalation

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

Notes to physician

Treatment

Treat symptomatically.

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray
Carbon dioxide (CO₂)
Foam
Sand

Specific hazards during fire fighting

In the event of fire the following may be released:
Hydrogen fluoride
Carbon monoxide (CO)

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.
In the event of fire, wear self-contained breathing apparatus.

Further information

Contain the spread of the fire-fighting media.
Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

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Environmental precautions

Do not allow to get into surface water, drains and ground water.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Clean contaminated floors and objects thoroughly, observing environmental regulations.

Keep in suitable, closed containers for disposal.

Additional advice

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section

8. Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Storage

Requirements for storage areas and containers

Store in original container.

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
3-(Trifluoromethyl)acetophenone	349-76-8	50 ppm (TWA)		

Personal protective equipment

Respiratory protection

No personal respiratory protective equipment normally required.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

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Hand protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and type 6 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.
Hygiene measures	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid, clear
Colour	colourless to orange red
Odour	weak

Safety data

Boiling point/boiling range	ca. 200 °C at 1.013 hPa
Flash point	83 °C (A30)2006-10-13 Methode entfernt
Vapour pressure	0,35 hPa at 25 °C
Density	ca. 1,26 g/cm ³ at 20 °C
Water solubility	0,62 g/l at 25 °C
Partition coefficient: n octanol/water	log Pow: 2,55

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10. STABILITY AND REACTIVITY

Thermal decomposition	240 °C
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 (rat) > 2.000 mg/kg
Acute inhalation toxicity	LC50 (rat) > 6,913 mg/l Exposure time: 4 h
Acute dermal toxicity	LD50 (rat) > 2.000 mg/kg
Skin irritation	No skin irritation (rabbit)
Eye irritation	No eye irritation (rabbit)
Sensitisation	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test

12. ECOLOGICAL INFORMATION

Biodegradability	18 % Exposure time: 28 d EC-Method C.4-D: MANOMETRIC RESPIROMETRY TEST / OECD 301 F
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Ecotoxicity effects

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 13,6 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (<i>Daphnia pulex</i> (Water flea)) 22,7 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (<i>Desmodosmus subspicatus</i>) 30,9 mg/l Exposure time: 72 h

13. DISPOSAL CONSIDERATIONS

Product

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

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14. TRANSPORT INFORMATION

According to national and international transport regulations not classified as dangerous goods.

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

15. REGULATORY INFORMATION

Further information

WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 3

R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Text of the hazard statements mentioned in Section 3

H412	Harmful to aquatic life with long lasting effects.
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