

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)
Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

Creation Date: 30-06-2026

Revision Date: 25-11-2021

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name: Benzyl chloromethyl ether, 90%
Product Code: B 2146
CAS No: 3587-60-8

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

Acute toxicity, Category 4

Skin irritation, Category 2

Serious eye damage, Category 1

Skin sensitisation, Category 1

Carcinogenicity, Category 1B

Specific target organ toxicity -

single exposure, Category 3,

Respiratory system

Specific target organ toxicity -

repeated exposure, Category 2,

Heart, forestomach

Short-term (acute) aquatic hazard,

Category 1

Long-term (chronic) aquatic hazard,

Category 1

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word

Hazard statements

H302: Harmful if swallowed.

H332: Harmful if inhaled.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H350: May cause cancer.

H335: May cause respiratory irritation.

H373: May cause damage to organs through
prolonged or repeated exposure if
swallowed.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long
lasting effects.

:

: Danger

: H302 + H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H350 May cause cancer.

H373 May cause damage to organs (Heart,
forestomach) through prolonged or
repeated exposure if swallowed.

H410 Very toxic to aquatic life with long lasting
effects.

Prevention:

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/
eye protection/ face protection.

Precautionary
Statements

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Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER/
doctor if you feel unwell.
P304 + P340 + P312 IF INHALED: Remove person to
fresh air and keep comfortable for
breathing. Call a POISON CENTER/ doctor if
you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with
water for several minutes. Remove contact
lenses, if present and easy to do. Continue
rinsing.
P308 + P313 IF exposed or concerned: Get medical
advice/ attention.

Additional Labelling

Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H317

H350

H318

Precautionary Statements

P280

P305 + P351 + P338

P308 + P313

Supplemental Hazard
Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent,
bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels
of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to
have endocrine disrupting properties according to REACH Article 57(f) or Commission
Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of
0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to
have endocrine disrupting properties according to REACH Article 57(f) or Commission
Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of
0.1% or higher.

Restricted to professional users.

:
Danger

May cause an allergic skin reaction.

May cause cancer.

Causes serious eye damage.

Wear protective gloves/ protective clothing/ eye protection/ face
protection.

IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue
rinsing.

IF exposed or concerned: Get medical advice/ attention.
none

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : (Chloromethoxymethyl)benzene

CAS-No. : 3587-60-8

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
BENZYL CHLOROMETHYL ETHER	3587-60-8	>= 50 - < 70	Acute toxicity estimate Acute oral toxicity: 500,1 mg/kg 500,1 mg/kg
Benzyl chloride	100-44-7 202-853-6	>= 20 - < 30	Acute toxicity estimate Acute oral toxicity: 560 mg/kg Acute inhalation toxicity (vapour): 5 mg/l
Formaldehyde dibenzyl acetal	2749-70-4	>= 10 - < 20	M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Immediately call in physician.

If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact : After eye contact: rinse out with plenty of water.

Immediately call in ophthalmologist. Remove contact lenses.

If swallowed : After swallowing: immediately make victim drink water (two glasses at most).

Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

Water

Foam

Carbon dioxide (CO₂)

Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting

Mixture with combustible ingredients.

Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion products

Carbon oxides

Hydrogen chloride gas

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : Suppress (knock down) gases/vapours/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:

Do not breathe vapours, aerosols.

Avoid substance contact.

Ensure adequate ventilation.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions

Do not let product enter drains.

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6.3 Methods and material for containment and cleaning up
Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.
Observe possible material restrictions (see sections 7 and 10).
Take up carefully with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.
6.4 Reference to other sections
For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling : Work under hood. Do not inhale substance/mixture.
Avoid generation of vapours/aerosols.
Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
Further information on storage conditions
Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.
Storage class (TRGS 510) : 6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects
Recommended storage
Temperature 2 - 8 °C
Further information on storage stability
Moisture sensitive.
Handle and store under inert gas.
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational Exposure Limits
8.2 Exposure controls
Personal protective equipment
Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Tightly fitting safety goggles
Hand protection
Remarks : required
Skin and body protection : protective clothing
Respiratory protection : required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Recommended Filter
type:
Filter type ABEK
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.
These measures have to be properly documented.
Environmental exposure controls
Advice : Do not let product enter drains.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Form	: clear
Color	: dark yellow, brown
Odor	: No data available
Melting point	: No data available
Boiling point/boiling range	: 102 °C (19 hPa) Method: lit.
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Water solubility	: No data available
Partition coefficient: noctanol/water	: log Pow: 2,22
Vapor pressure	: No data available
Relative density	: No data available
Density	: 1,126 g/cm ³ (20 °C) Method: lit.

Relative vapour density

: No data available

9.2 Other information

Explosives	: Not classified as explosive.
Oxidizing properties	: none
Burning rate	: No data available
Evaporation rate	: No data available
Molecular weight	: 156,61 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Conditions to avoid : no information available

10.5 Incompatible materials

Materials to avoid : Water

Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity

to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

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SECTION 12: Ecological information

12.1 Toxicity

Components:

BENZYL CHLOROMETHYL ETHER:

Toxicity to daphnia and

other aquatic

invertebrates

Remarks: No data available

Benzyl chloride:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 4 mg/l

Exposure time: 96 h

Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and

other aquatic

invertebrates

EC50 (Daphnia magna (Water flea)): 6,1 mg/l

End point: Immobilization

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Formaldehyde dibenzyl acetal:

Toxicity to fish : Remarks: No data available

M-Factor (Acute aquatic

toxicity)

10

M-Factor (Chronic aquatic

toxicity)

10

12.2 Persistence and degradability

Components:

Benzyl chloride:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge

Concentration: 100 mg/l

Result: Readily biodegradable.

Biodegradation: 71 %

Exposure time: 14 d

Method: OECD Test Guideline 301C

Stability in water : Test substance: Water

Remarks: Rapid degradation.

Formaldehyde dibenzyl acetal:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Components:

BENZYL CHLOROMETHYL ETHER:

Partition coefficient: noctanol/water

log Pow: 2,22

Benzyl chloride:

Partition coefficient: noctanol/water

log Pow: 2,3

Method: (experimental)

Remarks: (IUCLID)

Bioaccumulation is not expected.

Formaldehyde dibenzyl acetal:

Bioaccumulation : Remarks: No data available

Partition coefficient: noctanol/water

log Pow: 2,918

12.4 Mobility in soil

Components:

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Formaldehyde dibenzyl acetal:

Stability in soil : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

No data available

12.7 Other adverse effects

Components:

Benzyl chloride:

Additional ecological information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3082

IMDG : UN 3082

IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Formaldehyde dibenzyl acetal)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Formaldehyde dibenzyl acetal)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(Formaldehyde dibenzyl acetal)

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADR

Packing group : III

Classification Code : M6

Hazard Identification : 90

Number

Labels : 9

Tunnel restriction code : (-)

IMDG

Packing group : III

Labels : 9

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EmS Code	: F-A, S-F
IATA (Cargo)	
Packing instruction (cargo aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: Class 9 - Miscellaneous dangerous substances and articles
IATA_P (Passenger)	
Packing instruction (passenger aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: Class 9 - Miscellaneous dangerous substances and articles
14.5 Environmental hazards	
ADR	
Environmentally hazardous	: yes
IMDG	
Marine pollutant	: yes
14.6 Special precautions for user	
Remarks	: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.	
14.7 Maritime transport in bulk according to IMO instruments	
Not applicable for product as supplied.	

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)
Conditions of restriction for the following entries should be considered:
Number on list 3
Number on list 28: Benzyl chloride
Number on list 72: Benzyl chloride
Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

Number on list 77:

Formaldehyde dibenzyl acetal

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

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Seveso III: Directive 2012/18/EU of the
European Parliament and of the Council
on the control of major-accident hazards
involving dangerous substances.

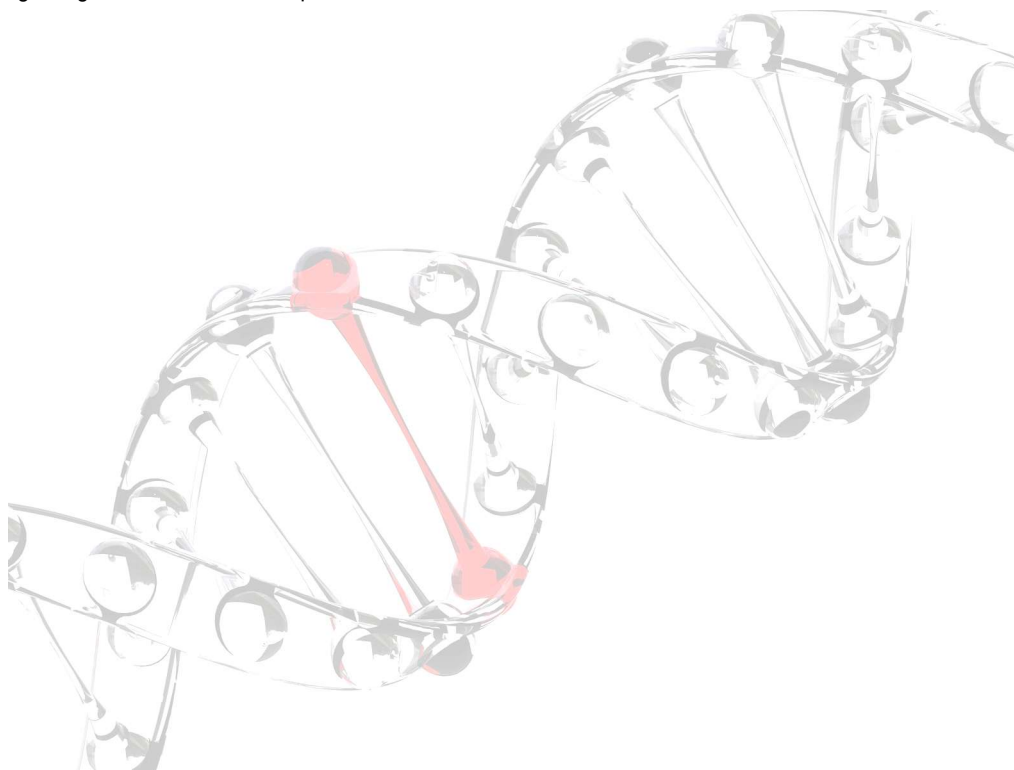
E1 ENVIRONMENTAL HAZARDS

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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