

# 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](mailto:info@ottokemi.com) Web : [www.ottokemi.com](http://www.ottokemi.com)

Creation Date: 28-06-2026

Revision Date: 25-11-2031

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Product identifiers

Product Name: Allyl glycidyl ether, ≥99%

Product Code: A 2471

CAS No: 106-92-3

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)

Flammable liquids, Category 3

Acute toxicity, Category 4

Acute toxicity, Category 3

Skin irritation, Category 2

Serious eye damage, Category 1

Skin sensitisation, Category 1

Germ cell mutagenicity, Category 2

Carcinogenicity, Category 2

Reproductive toxicity, Category 2

Specific target organ toxicity -

single exposure, Category 3,

Respiratory system

Long-term (chronic) aquatic hazard,

Category 3

lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word

Hazard statements

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H331: Toxic if inhaled.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H341: Suspected of causing genetic defects.

H351: Suspected of causing cancer.

H361fd: Suspected of damaging fertility.

Suspected of damaging the unborn child.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long

: Danger

: H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility. Suspected

of damaging the unborn child.

H412 Harmful to aquatic life with long lasting

effects.

Precautionary  
statements

:

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Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H331

H317

H341

H351

H318

H412

H361fd

Precautionary Statements

P280

P304 + P340 + P311

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.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : Allyl 2,3-epoxypropyl ether

Index-No. : 603-038-00-1

EC-No. : 203-442-4

Components

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

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

Response:

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

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.

:  
Danger

Toxic if inhaled.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Suspected of causing cancer.

Causes serious eye damage.

Harmful to aquatic life with long lasting effects.

Suspected of damaging fertility. Suspected of damaging the unborn child.

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

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

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| Chemical name               | CAS-No.<br>EC-No.     | Concentration (%)<br>w/w) | M-Factor, SCL, ATE                                                                                                |
|-----------------------------|-----------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|
| allyl 2,3-epoxypropyl ether | 106-92-3<br>203-442-4 | >= 90 - <= 100            | cute toxicity estimate<br>Acute oral toxicity:<br>1.600 mg/kg<br>Acute inhalation toxicity (vapour):<br>2,56 mg/l |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : First aiders need to protect themselves.

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

: Carbon dioxide (CO<sub>2</sub>)

Foam

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

: Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

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

Hazardous combustion products

: Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters

: Stay in danger area only with self-contained breathing

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apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.  
Further information : Remove container from danger zone and cool with water.  
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.

Keep away from heat and sources of ignition.

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.

Risk of explosion.

### 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. Chemizorb®). 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.

Advice on protection against fire and explosion

: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

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

: Keep container tightly closed in a dry and wellventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorised persons.

Storage class (TRGS 510) : 3, Flammable liquids

Further information on

storage stability

: 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

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## 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

Material : natural latex

Break through time : 10 min

Glove thickness : 0,6 mm

Protective index : Splash contact

Manufacturer : Lapren®

Material : butyl-rubber

Break through time : 480 min

Glove thickness : 0,7 mm

Protective index : Full contact

Manufacturer : KCL 898 Butoject®

Remarks : This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Skin and body protection : Flame retardant antistatic 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 A (acc. to DIN 3181) for vapours of organic compounds

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.

Risk of explosion.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |                     |
|--------------------------------------------------|---------------------|
| Physical state                                   | : Liquid            |
| Color                                            | : colourless        |
| Odor                                             | : pungent           |
| Melting point/ range (ECHA)                      | : -100 °C           |
| Boiling point/boiling range                      | : 154 °C            |
| 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                                      | : 57 °C             |
| Method: closed cup                               |                     |
| Autoignition temperature                         | : 264 °C            |

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|                                       |                                   |
|---------------------------------------|-----------------------------------|
| Decomposition temperature             | : No data available               |
| pH                                    | : No data available               |
| Viscosity, dynamic                    | : No data available               |
| Viscosity, kinematic                  | : No data available               |
| Flow time                             | : No data available               |
| Solubility(ies)                       |                                   |
| Water solubility                      | : 140 g/l (20 °C)                 |
| Partition coefficient: noctanol/water | : No data available               |
| Vapor pressure                        | : 4,8 hPa (20 °C)                 |
| Relative density                      | : No data available               |
| Density                               | : 0,962 g/cm <sup>3</sup> (25 °C) |
| Method: lit.                          |                                   |
| Relative vapour density               | : 3,94<br>(Air = 1.0)             |

## 9.2 Other information

### Explosives

: Method: Explosive properties  
GLP: yes  
Not classified as explosive.

|                      |                     |
|----------------------|---------------------|
| Oxidizing properties | : none              |
| Burning rate         | : No data available |
| Evaporation rate     | : No data available |
| Molecular weight     | : 114,14 g/mol      |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Vapour/air-mixtures are explosive at intense warming.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Violent reactions possible with:

Strong oxidizing agents

Bases

Strong acids

Amines

### 10.4 Conditions to avoid

Conditions to avoid : Heating.

### 10.5 Incompatible materials

No data available

### 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.

## SECTION 12: Ecological information

### 12.1 Toxicity

Components:

allyl 2,3-epoxypropyl ether:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 36 mg/l

End point: mortality

Exposure time: 96,0 h

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Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Toxicity to daphnia and other aquatic invertebrates  
: EC50 (Daphnia magna (Water flea)): 50 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Toxicity to algae/aquatic plants  
: ErC50 (Pseudokirchneriella subcapitata): > 79 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
12.2 Persistence and degradability  
Components:  
allyl 2,3-epoxypropyl ether:  
Biodegradability : Test Type: aerobic  
Result: Not readily biodegradable.  
Biodegradation: 5 - 9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes  
Biochemical Oxygen Demand (BOD)  
: 60 mg/g  
Incubation time: 5 d  
Remarks: (External MSDS)  
Chemical Oxygen Demand (COD)  
: 1.990 mg/g  
Remarks: (External MSDS)  
ThOD : 2.100 mg/g  
Remarks: (Lit.)  
BOD/ThOD : 2,8 %  
Remarks: (Lit.)  
12.3 Bioaccumulative potential  
No data available  
12.4 Mobility in soil  
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.

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No data available

12.7 Other adverse effects

Components:

allyl 2,3-epoxypropyl ether:

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 2219

IMDG : UN 2219

IATA : UN 2219

14.2 UN proper shipping name

ADR : ALLYL GLYCIDYL ETHER

IMDG : ALLYL GLYCIDYL ETHER

IATA : Allyl glycidyl ether

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 3

IMDG : 3

IATA : 3

14.4 Packing group

ADR

Packing group : III

Classification Code : F1

Hazard Identification : 30

Number

Labels : 3

Tunnel restriction code : (D/E)

IMDG

Packing group : III

Labels : 3

EmS Code : F-E, S-D

IATA (Cargo)

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344

Packing group : III

Labels : Class 3 - Flammable liquids

IATA\_P (Passenger) : 355

Packing instruction

(passenger aircraft)

Packing instruction (LQ) : Y344

Packing group : III

Labels : Class 3 - Flammable liquids

14.5 Environmental hazards

ADR

Environmentally : no

hazardous

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely

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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 40: allyl 2,3-epoxypropyl ether

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

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

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

H2 ACUTE TOXIC

P5c FLAMMABLE LIQUIDS

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.

Creation Date: 28-06-2026

Revision Date: 25-11-2031

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