

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: 20-08-2026

Revision Date: 18-07-2021

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name: Diethylene glycol mono-n-hexyl ether, 98%
Product Code: D 1411
CAS No: 112-59-4

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

Skin irritation, Category 2

Serious eye damage, Category 1

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word

Hazard statements

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

: Danger

: H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary
statements

Prevention:

P264 Wash skin thoroughly after handling.

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

Response:

P302 + P352 + P312 IF ON SKIN: Wash with plenty of
water. 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.

P332 + P313 If skin irritation occurs: Get medical
advice/ attention.

P362 + P364 Take off contaminated clothing and wash
it before reuse.

Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H318

Precautionary Statements

P305 + P351 + P338

: Danger

Causes serious eye damage.

Supplemental Hazard
Statements

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.
none

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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

EC-No. : 203-988-3

Components

Chemical name	CAS-No. EC-No.	Concentration (%) w/w)	M-Factor, SCL, ATE
diethylene glycol monohexyl ether	112-59-4 203-988-3	>= 90 - <= 100	
diethylene glycol	111-46-6 203-872-2	>= 1 - < 10	Acute toxicity estimate Acute oral toxicity: 500,1 mg/kg
2-(hexyloxy)ethanol	112-25-4 203-951-1	>= 1 - < 3	

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.

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 GHS label elements) 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

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

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or

vapours possible in the event of fire.

Hazardous combustion products

Carbon oxides

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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 : 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.

Wear appropriate personal protective equipment, as indicated in Section 8.

6.2 Environmental precautions

Environmental precautions

Do not let product enter drains.

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 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

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Temperature class : T3

For precautions see section 2 GHS label elements

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions

Tightly closed.

Storage class (TRGS 510) : 10, Combustible liquids

Further information on storage stability

Recommended storage temperature see product label.

Recommended storage temperature

Recommended storage temperature see product label.

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

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
diethylene glycol	Worker DNEL, longterm	Dermal	Long-term systemic effects	106 mg/kg
	Worker DNEL, longterm	Inhalation	Long-term local effects	60 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
	Fresh water	10 mg/l
	Marine water	1 mg/l
	Aquatic intermittent release	199,5 mg/l
	Fresh water sediment	20,9 mg/kg
	Soil	1,53 mg/kg
	Sewage treatment plant	10 mg/l

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8.2 Exposure controls

Individual protection measures, such as personal protective equipment (PPE)

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 : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,40 mm

Protective index : Full contact

Manufacturer : Camatril®

Material : Latex gloves

Break through time : 240 min

Glove thickness : 0,6 mm

Protective index : Splash contact

Manufacturer : Lapren®

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).

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: Colourless to light
Odour	: mild
Melting point/ range	: -41 - -39 °C
Boiling point/boiling range	: 260 °C (1,013 hPa)
Flammability	: No data available
Upper explosion limit /	: Upper explosion limit
Upper flammability limit	6,3 %(V)
Lower explosion limit /	: Lower explosion limit
Lower flammability limit	1,1 %(V)
Flash point	: 123 °C
Autoignition temperature	: 210 °C
Decomposition	: No data available
temperature	
pH	: 5 - 7 (20 °C) Concentration: 200 g/l
Viscosity	
Viscosity, dynamic	: 8,0 mPa.s (20 °C)
Viscosity, kinematic	: No data available
Flow time	: No data available
Solubility(ies)	
Water solubility	: 17 g/l (20 °C)
Partition coefficient: noctanol/water	: log Pow: 1,70
Method: (experimental)	(Lit.)
	Bioaccumulation is not expected.

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Vapour pressure	: < 0.01 hPa (20 °C) 13 hPa (134 °C)
Relative density	: No data available
Density	: 0.93 g/cm ³ (20 °C)
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

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

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

Strong acids

strong alkalis

10.4 Conditions to avoid

Conditions to avoid : Strong heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Strong heating.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

For Hazardous combustion 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:

diethylene glycol monohexyl ether:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 200 mg/l

End point: Immobilization

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)): > 100 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

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ErC50 (Desmodesmus subspicatus (green algae)): 198,31 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Toxicity to microorganisms
NOEC (activated sludge): 1.000 mg/l
Exposure time: 0,5 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: yes
Toxicity to daphnia and other aquatic
EC10: 19,63 mg/l
Exposure time: 7 d
invertebrates (Chronic toxicity)
Species: Ceriodaphnia dubia (water flea)
Test Type: semi-static test
Remarks: (ECHA)
diethylene glycol:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 75.222 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates
LC50 (Daphnia magna (Water flea)): 62.630 mg/l
End point: mortality
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Toxicity to algae/aquatic plants
NOEC (Pseudokirchneriella subcapitata): > 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Toxicity to microorganisms
EC20 (activated sludge): > 1.995 mg/l
Exposure time: 30 min
Test Type: static test
Method: ISO 8192
Toxicity to fish (Chronic toxicity)
LC50: > 1.500 mg/l
End point: mortality
Exposure time: 28 d
Species: Menidia peninsulae
Test Type: flow-through test
Analytical monitoring: yes
Remarks: (ECHA)
NOEC: > 40 mg/l
End point: mortality
Exposure time: 28 d
Species: Menidia peninsulae
Test Type: flow-through test
Analytical monitoring: yes
Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
LC50: > 1.000 mg/l

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End point: mortality
Exposure time: 23 d
Species: Mysisidopsis bahia (opossum shrimp)
Test Type: flow-through test
Analytical monitoring: yes
Remarks: (ECHA)
NOEC: ≥ 1.000 mg/l
End point: mortality
Exposure time: 23 d
Species: Mysisidopsis bahia (opossum shrimp)
Test Type: flow-through test
Analytical monitoring: yes
Remarks: (ECHA)
2-(hexyloxy)ethanol:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 140 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)): 145 mg/l
Exposure time: 48 h
Test Type: static test
Toxicity to algae/aquatic plants
EC50 (Desmodesmus subspicatus (green algae)): 198,31 mg/l
Exposure time: 72 h
Test Type: static test
12.2 Persistence and degradability
Components:
diethylene glycol monohexyl ether:
Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 33 mg/l
Result: Readily biodegradable.
Biodegradation: 90 - 100 %
Exposure time: 15 d
Method: OECD Test Guideline 301A
GLP: yes
diethylene glycol:
Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 53 mg/l
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 10 d
Method: OECD Test Guideline 301A
GLP: yes
ThOD : 1.510 mg/g
Remarks: (Lit.)
BOD/ThOD : 1,3 - 10 %
Remarks: (Lit.)
2-(hexyloxy)ethanol:
Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Biodegradation: 96,8 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
12.3 Bioaccumulative potential
Components:
diethylene glycol monohexyl ether:
Partition coefficient: noctanol/water log Pow: 1,70
Method: (experimental)

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Remarks: (Lit.)

Bioaccumulation is not expected.

diethylene glycol:

Partition coefficient: noctanol/water log Pow: -1,98 (25 °C)

Method: (experimental)

Remarks: Bioaccumulation is not expected.

(IUCLID)

2-(hexyloxy)ethanol:

Bioaccumulation : Remarks: No data available

Partition coefficient: noctanol/water log Pow: 1,97 (25 °C)

Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

Components:

2-(hexyloxy)ethanol:

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.

Components:

diethylene glycol:

Assessment : Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

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.

12.7 Other adverse effects

Components:

diethylene glycol monohexyl ether:

Additional ecological information

Discharge into the environment must be avoided.

2-(hexyloxy)ethanol:

Additional ecological information

No data available

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

: Not regulated as a dangerous good

IMDG

: Not regulated as a dangerous good

IATA_P

: Not regulated as a dangerous good

14.2 UN proper shipping name

ADR

: Not regulated as a dangerous good

IMDG

: Not regulated as a dangerous good

IATA_P

: Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR

: Not regulated as a dangerous good

IMDG

: Not regulated as a dangerous good

IATA_P

: Not regulated as a dangerous good

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14.4 Packing group

ADR

: Not regulated as a dangerous good

IMDG

: Not regulated as a dangerous good

IATA (Cargo)

: Not regulated as a dangerous good

IATA_P (Passenger)

: Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks

: Not classified as dangerous in the meaning of transport 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: diethylene

glycol

Number on list 3

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.

Not applicable

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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