

# 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: 30-06-2026

Revision Date: 25-11-2021

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Product identifiers

Product Name: 6-Bromo-1-hexene, 95%  
Product Code: B 2051  
CAS No: 2695-47-8

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)

Flammable liquids, Category 3

Skin irritation, Category 2

Eye irritation, Category 2

Reproductive toxicity, Category 1B

Specific target organ toxicity -

single exposure, Category 3,

Respiratory system

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word

Hazard statements

H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H360D: May damage the unborn child.

H335: May cause respiratory irritation.

: Danger

: H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360D May damage the unborn child.

Precautionary  
statements

Prevention:

P202 Do not handle until all safety precautions  
have been read and understood.

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

P233 Keep container tightly closed.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off  
immediately all contaminated clothing.

Rinse skin with water.

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.

### DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for  
mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

# 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)

## Additional Labelling

Restricted to professional users.

Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H360D

Precautionary Statements

P202

:

Danger

May damage the unborn child.

Do not handle until all safety precautions have been read and understood.

IF exposed or concerned: Get medical advice/ attention.

none

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

EC-No. : 220-267-9

Components

| Chemical name         | CAS-No. EC-No.         | Concentration (% w/w) | M-Factor, SCL, ATE                                                                                             |
|-----------------------|------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------|
| 6-Bromohex-1-ene      | 2695-47-8<br>220-267-9 | >= 90 - <= 100        |                                                                                                                |
| N,N-dimethylformamide | 68-12-2<br>200-679-5   | >= 1 - < 10           | Acute toxicity estimate Acute<br>inhalation toxicity (vapour): 11,1 mg/l<br>Acute dermal toxicity: 1.500 mg/kg |

## 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. Call in physician.

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.

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

## DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

# 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)

---

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

Nitrogen oxides (NOx)

Hydrogen bromide 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 : Remove container from danger zone and cool with water.

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.

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

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for  
mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

# 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)

---

## 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

N,Ndimethylformamide

Worker

DNEL,

longterm

Dermal Systemic effects 3,31 mg/kg

Worker

DNEL,

longterm

Inhalation Systemic effects 15 mg/m<sup>3</sup>

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

Substance name Environmental Compartment Value

N,N-dimethylformamide Fresh water 30 mg/l

Marine water 3 mg/l

Aquatic intermittent release 30 mg/l

Fresh water sediment 25,05 mg/kg

Soil 16,24 mg/kg

Sewage treatment plant 123 mg/l

### 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).

Safety glasses

Hand protection

Remarks : required

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 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. Risk of explosion.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state

: liquid

Color

: light yellow

Odor

: No data available

Melting point

: No data available

Boiling point/boiling range

: 47 - 51 °C (21 hPa)

Method: lit.

Flammability

: No data available

Upper explosion limit /

: No data available

Upper flammability limit

Lower explosion limit /

: No data available

---

## DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

# 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)

---

|                                       |                                                  |
|---------------------------------------|--------------------------------------------------|
| Lower flammability limit              |                                                  |
| Flash point                           | : 54 °C<br>Method: closed cup                    |
| 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 | : No data available                              |
| Vapor pressure                        | : No data available                              |
| Relative density                      | : No data available                              |
| Density                               | : 1,22 g/cm <sup>3</sup> (25 °C)<br>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                      | : 163,06 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

No data available

### 10.4 Conditions to avoid

Conditions to avoid : Heating.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

Strong bases

### 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:

6-Bromohex-1-ene:

Toxicity to fish : Remarks: No data available

N,N-dimethylformamide:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 7.100 mg/l

End point: mortality

Exposure time: 96 h

Test Type: flow-through test

---

## DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

# 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)

---

Analytical monitoring: yes  
Method: US-EPA  
Toxicity to daphnia and other aquatic invertebrates  
EC50 (Daphnia magna (Water flea)): 13.100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Toxicity to algae/aquatic plants  
ErC50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: DIN 38412  
Toxicity to microorganisms  
EC50 (Vibrio fischeri): 12.300 - 17.500 mg/l  
End point: Growth rate  
Exposure time: 5 min  
Test Type: static test  
Remarks: (ECHA)  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  
NOEC: 1.500 mg/l  
End point: reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Remarks: (ECHA)  
12.2 Persistence and degradability  
Components:  
6-Bromohex-1-ene:  
Biodegradability : Remarks: No data available  
N,N-dimethylformamide:  
Biodegradability : Test Type: aerobic  
Concentration: 20 mg/l  
Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 21 d  
Method: OECD Test Guideline 301E  
Biochemical Oxygen Demand (BOD)  
900 mg/g  
Incubation time: 5 d  
Remarks: (Lit.)  
ThOD : 1.863 mg/g  
Remarks: (Lit.)  
Stability in water : Degradation half life: ca. 50 d  
Remarks: reaction with hydroxyl radicals (calculated)  
(Lit.)  
12.3 Bioaccumulative potential  
Components:  
6-Bromohex-1-ene:  
Bioaccumulation : Remarks: No data available  
N,N-dimethylformamide:

---

## DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use  
Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.  
Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.  
This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

# 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)

---

Bioaccumulation : Species: Cyprinus carpio (Carp)

Exposure time: 56 d

Temperature: 25 °C

Concentration: 0,002 mg/l

Bioconcentration factor (BCF): 0,3 - 1,2

Method: OECD Test Guideline 305C

Remarks: Does not significantly accumulate in organisms.

Partition coefficient: noctanol/water

log Pow: -0,85 (25 °C)

Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

Components:

6-Bromohex-1-ene:

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:

6-Bromohex-1-ene:

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

: UN 1993

IMDG

: UN 1993

IATA

: UN 1993

14.2 UN proper shipping name

ADR

: FLAMMABLE LIQUID, N.O.S.  
(6-Bromohex-1-ene)

IMDG

: FLAMMABLE LIQUID, N.O.S.  
(6-Bromohex-1-ene)

IATA

: Flammable liquid, n.o.s.  
(6-Bromohex-1-ene)

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR

: 3

IMDG

: 3

---

### DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

# 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)

---

|                                          |                               |
|------------------------------------------|-------------------------------|
| 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-E                    |
| IATA (Cargo)                             |                               |
| Packing instruction (cargo aircraft)     | : 366                         |
| Packing instruction (LQ)                 | : Y344                        |
| Packing group                            | : III                         |
| Labels                                   | : Class 3 - Flammable liquids |
| IATA_P (Passenger)                       |                               |
| Packing instruction (passenger aircraft) | : 355                         |
| Packing instruction (LQ)                 | : Y344                        |
| Packing group                            | : III                         |
| Labels                                   | : Class 3 - Flammable liquids |
| 14.5 Environmental hazards               |                               |
| ADR                                      |                               |
| Environmentally hazardous                | : no                          |
| IMDG                                     |                               |
| Marine pollutant                         | : no                          |
| 14.6 Special precautions for user        |                               |

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 : Conditions of restriction for the on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) following entries should be considered:

Number on list 3

Number on list 40

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

Banned and/or restricted

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

N,N-dimethylformamide

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

Not applicable

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

---

## DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

# ***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)

---

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.

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.



---

## **DISCLAIMER**

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product