

# 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)

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Product identifiers

Product Name : Celloidine 8% embedding reagent  
Product Code : C 1746

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 according to Regulation (EC) No. 1272/2008 [CLP] Mixture/Substance: SDS EU 2015: According to Annex II of Regulation (EC) No. 453/2010 (REACH Annex II)

Flammable liquids, H224

Category 1

Acute toxicity (oral), H302

Category 4

Specific target organ H336

toxicity — Single exposure, Category 3, Narcosis

Full text of classification categories and H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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CELLOIDINE 8%

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display Extra classification(s) to display

Hazard pictograms (CLP)

Signal word (CLP) Danger

:

GHS02 GHS07

Hazard statements (CLP) H224 - Extremely flammable liquid and vapour

H302 - Harmful if swallowed

H336 - May cause drowsiness or dizziness

Precautionary statements (CLP) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P261 - Avoid breathing vapours, spray, dust, fume, gas

2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethano	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	50 - 75	Flam. Liq. 3, H226 Skin Corr. 1A, H314
DIETHYLETHER (stabilised) 98%	(CAS No) 60-29-7	25 - 50	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 STOT SE 3, H336
NITROCELLULOSE	(CAS No) 9004-70-0	10 - 15	Acute Tox. 4 (Oral), H302 STOT SE 3, H336

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.  
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First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do

NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

Symptoms/injuries after ingestion

: May cause drowsiness or dizziness.

: Harmful if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

: Carbon dioxide. Dry powder. Foam. Water spray.

: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable liquid and vapour.

### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. No naked lights. No smoking. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment

Emergency procedures

: Use personal protective equipment as required.

: Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

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## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

## 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

Hygiene measures

: Do not breathe vapours. Avoid contact with skin and eyes. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a wellventilated area.

: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Incompatible materials

: Keep container tightly closed. Keep in fireproof place.

: Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection

Eye protection

Skin and body protection

Respiratory protection

: Protective gloves

: Chemical goggles or face shield

: Wear suitable protective clothing

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Clear Colorless.
Odour	: No data available
Odour threshold	: No data available
Ph	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: -45 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.8 g/cm
Solubility	: No data available
Log Pow	
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available

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Oxidising properties : No data available  
Explosive limits : No data available  
9.2. Other information  
No additional information available

## SECTION 10: Stability and reactivity

10.1. Reactivity  
No additional information available  
10.2. Chemical stability  
Stable under normal conditions.  
10.3. Possibility of hazardous reactions  
No additional information available  
10.4. Conditions to avoid  
Overheating. Open flame. Heat. Sparks.  
10.5. Incompatible materials  
No additional information available  
10.6. Hazardous decomposition products  
No additional information available

## 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

: Not classified  
: Harmful if swallowed.  
12.1. Toxicity  
No additional information available  
12.2. Persistence and degradability  
No additional information available  
12.3. Bioaccumulative potential  
No additional information available  
12.4. Mobility in soil  
No additional information available  
12.5. Results of PBT and vPvB assessment  
No additional information available  
12.6. Other adverse effects  
No additional information available

## SECTION 13: Disposal considerations

13.1. Waste treatment methods  
Product/Packaging disposal : Dispose of contents/container to ...  
recommendations

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number  
UN-No. (ADR) : 2059  
UN-No. (IMDG) : 2059  
UN-No. (IATA) : 2059  
UN-No. (ADN) : 2059  
UN-No. (RID) : 2059  
14.2. UN proper shipping name

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Proper Shipping Name (ADR)	: NITROCELLULOSE SOLUTION, FLAMMABLE
Proper Shipping Name (IMDG)	: NITROCELLULOSE SOLUTION, FLAMMABLE
Proper Shipping Name (IATA)	: NITROCELLULOSE SOLUTION, FLAMMABLE
Proper Shipping Name (ADN)	: NITROCELLULOSE SOLUTION, FLAMMABLE
Proper Shipping Name (RID)	: NITROCELLULOSE SOLUTION, FLAMMABLE
Transport document description (ADR)	: UN 2059 NITROCELLULOSE SOLUTION, FLAMMABLE, 3, II, (B)
Transport document description (IMDG)	: UN 2059 NITROCELLULOSE SOLUTION, FLAMMABLE, 3, II
Transport document description (IATA)	: UN 2059 NITROCELLULOSE SOLUTION, FLAMMABLE, 3, II
Transport document description (ADN)	: UN 2059 NITROCELLULOSE SOLUTION, FLAMMABLE, 3, II
Transport document description (RID)	: UN 2059 NITROCELLULOSE SOLUTION, FLAMMABLE, 3, II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3
MDG	
Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3
ATA	
Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3
ADN	
Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3
RID	
Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3
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14.4. Packing group	
Packing group (ADR)	: II
Packing group (IMDG)	: II
Packing group (IATA)	: II
Packing group (ADN)	: II
Packing group (RID)	: II
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: D
Special provision (ADR)	: 198, 531, 640C
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP8
Tank code (ADR)	: L1.5BN
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage – Operation (ADR)	: S2, S14
Hazard identification number (Kemler No.)	: 33
Orange plates	
Tunnel restriction code (ADR)	: B
EAC code	: •2YE
- Transport by sea	
Special provision (IMDG)	: 198
Limited quantities (IMDG)	: 1 L

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Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP8
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	
MFAG-No	: 127;128
- Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3, A91
ERG code (IATA)	: 3H
- Inland waterway transport	
Classification code (ADN)	: D
Special provisions (ADN)	: 198, 531, 640C
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: D
Special provision (RID)	: 198, 531, 640C
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP8
Tank codes for RID tanks (RID)	: L1,5BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Not applicable	

## SECTION 15: Regulatory information

15.1.

15.1.1.

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

EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

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15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference

: Water hazard class (WGK) 3, strongly hazardous to water (Classification according to AwSV, Annex 1)

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12th Ordinance Implementing the Federal Immission Control Act -12.BImSchV Denmark	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Class for fire hazard	: Add boilingpoint
Store unit	: Add boilingpoint
Classification remarks	: Add boilingpoint; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation 15.2. Chemical safety assessment	: Young people below the age of 18 years are not allowed to use the product
No additional information available	

## 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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