

## SAFETY DATA SHEET

according to the Globally Harmonized System

### BEROL 790A

Version 1.3      Revision Date: 30.01.2024      IN / EN      Date of last issue: 30.07.2018  
Date of first issue: 22.12.2015

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BEROL 790A  
:

##### Manufacturer or supplier's details

Company : Nouryon Chemicals India Private Ltd.  
Unit No. NB-801, Empire Tower, Cloud City Campus,  
IN 400708 Navi Mumbai, Maharashtra  
India

Address : Unit No. NB-801, Empire Tower, Cloud City Campus,  
Navi Mumbai, Maharashtra 13 400708

Telephone :

Emergency telephone number : 24 hours:+31 57 06 79211, US-CHEMTREC:1-800-424-9300,  
CA-CANUTEC:1-613-996-6666, JP: +81 (836) 74 8810, CN: 化  
学事故应急咨询电话: +86 532 8388 9090

##### Recommended use of the chemical and restrictions on use

Recommended use : Surfactant

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#### 2. HAZARDS IDENTIFICATION

##### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

##### Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

##### GHS Classification

Acute toxicity (Oral) : Category 5

Skin corrosion/irritation : Category 2

Serious eye damage/eye irri-  
tation : Category 1

Short-term (acute) aquatic  
hazard : Category 2


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#### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H303 May be harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H401 Toxic to aquatic life.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**  
P301 + P332 + P317 IF SWALLOWED or if skin irritation occurs: Get medical help.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards which do not result in classification

Dust can form an explosive mixture in air.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Sulfonic acids, C14-16-alkane, sodium salts	68439-57-6	>= 90 - <= 100

### 4. FIRST AID MEASURES

General advice : Immediate medical attention is required.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

If inhaled : Remove to fresh air.

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In case of skin contact	:	<p>Keep patient warm and at rest. Rinse nose and mouth with water. Take off contaminated clothing and shoes immediately. Rinse immediately with plenty of water. If skin irritation persists, call a physician.</p>
In case of eye contact	:	<p>Rinse with plenty of water. Get medical attention immediately. Continue to rinse during transport. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.</p>
If swallowed	:	<p>Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.</p>
Most important symptoms and effects, both acute and delayed	:	<p>The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known. May be harmful if swallowed. Causes skin irritation. Causes serious eye damage.</p>
Notes to physician	:	<p>Treat symptomatically.</p>

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#### 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire-fighting	:	<p>Do not allow run-off from fire fighting to enter drains or water courses. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.</p>
Hazardous combustion products	:	<p>Carbon oxides Sulphur oxides Halogenated compounds Hydrogen chloride Metal oxides</p>
Specific extinguishing methods	:	<p>Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</p>
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

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#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency	:	<p>Use personal protective equipment. Avoid dust formation.</p>
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gency procedures : Avoid breathing dust.  
 Ensure adequate ventilation.  
 Evacuate personnel to safe areas.  
 Only qualified personnel equipped with suitable protective equipment may intervene.  
 Prevent unauthorised persons entering the zone.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
 If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Neutralise with acid.  
 Pick up and arrange disposal without creating dust.  
 Sweep up and shovel.  
 Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.  
 No sparking tools should be used.

Advice on safe handling : For personal protection see section 8.  
 Avoid creating dust.  
 Avoid contact with skin, eyes and clothing.  
 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep in a dry place.  
 Store at room temperature in the original container.  
 Keep container tightly closed.

Further information on storage stability : No decomposition if stored and applied as directed.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

##### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

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Hydrogen chloride	7647-01-0	CEIL	5 ppm 7 mg/m <sup>3</sup>	IN OEL
		C	2 ppm	ACGIH

**Engineering measures** : Provide appropriate exhaust ventilation at places where dust is formed.  
Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

Respiratory protection : Half mask with a particle filter P2 (EN 143)

Hand protection

Material : Neoprene

Material : Nitrile rubber

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : off-white

Odour : mild

Odour Threshold : No data available

pH : 10.5 - 12.5  
Concentration: 10 g/l

Melting point/range : Not applicable

Boiling point/boiling range : Not applicable

Flash point : 100 - 199 °C  
Method: closed cup

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

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Flammability (liquids)	:	Not applicable
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Solubility(ies)		
Water solubility	:	partly soluble, 5 %
Solubility in other solvents	:	dispersible Solvent: Ethanol
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

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#### 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Dust may form explosive mixture in air.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

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Hazardous decomposition products	:	Halogenated compounds Hydrogen chloride
Thermal decomposition	:	No data available

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#### 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

May be harmful if swallowed.

##### Product:

Acute oral toxicity	:	Acute toxicity estimate: 2,605 mg/kg Method: Calculation method
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##### Components:

##### **Sulfonic acids, C14-16-alkane, sodium salts:**

Acute oral toxicity	:	LD50 (Rat): > 2,000 - 5,000 mg/kg
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##### Skin corrosion/irritation

Causes skin irritation.

##### Components:

##### **Sulfonic acids, C14-16-alkane, sodium salts:**

Result	:	Irritating to skin.
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##### Serious eye damage/eye irritation

Causes serious eye damage.

##### Components:

##### **Sulfonic acids, C14-16-alkane, sodium salts:**

Result	:	Risk of serious damage to eyes.
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##### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified based on available information.

##### Respiratory sensitisation

Not classified based on available information.

##### Germ cell mutagenicity

Not classified based on available information.

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#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

##### **Product:**

Remarks : No further data available.

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## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

##### **Components:**

##### **Sulfonic acids, C14-16-alkane, sodium salts:**

Toxicity to fish : LC50 (Fish): > 1 - 10 mg/l  
Exposure time: 96 h  
Remarks: Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Remarks: Read-across (Analogy)

Toxicity to algae/aquatic plants : NOEC ( Skeletonema costatum (marine diatom)): > 1 - 10 mg/l  
Exposure time: 72 h  
Remarks: Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 1 - 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Information taken from reference works and the literature.



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#### Persistence and degradability

##### Components:

##### **Sulfonic acids, C14-16-alkane, sodium salts:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Information taken from reference works and the literature.

Biochemical Oxygen Demand (BOD) : Remarks: No data available

#### Bioaccumulative potential

##### Components:

##### **Sulfonic acids, C14-16-alkane, sodium salts:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

#### Mobility in soil

##### Components:

##### **Sulfonic acids, C14-16-alkane, sodium salts:**

Mobility : Remarks: No data available

#### Other adverse effects

##### Product:

Results of PBT and vPvB 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.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.

##### Components:

##### **Sulfonic acids, C14-16-alkane, sodium salts:**

Results of PBT and vPvB assessment : This substance is not considered to be a PBT (Persistent, Bioaccumulation, Toxic)  
This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating)

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#### 13. DISPOSAL CONSIDERATIONS

##### Disposal methods

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Hazardous waste  
Dispose of contents/container in accordance with local regulation.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.
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#### 14. TRANSPORT INFORMATION

##### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

##### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

##### Special precautions for user

- Remarks : Not classified as dangerous in the meaning of transport regulations.
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#### 15. REGULATORY INFORMATION

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

##### The components of this product are reported in the following inventories:

- REACH : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
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ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

#### 16. OTHER INFORMATION

Revision Date	:	30.01.2024
Date format	:	dd.mm.yyyy

##### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
IN OEL	:	India. Permissible levels of certain chemical substances in work environment.

ACGIH / C	:	Ceiling limit
IN OEL / CEIL	:	ceiling limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;

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n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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