

## SAFETY DATA SHEET

### ADSEE 1629

Version	Revision Date:	IN / EN	Date of last issue: 09.11.2017
1.2	10.11.2022		Date of first issue: 04.05.2017

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ADSEE 1629

##### Manufacturer or supplier's details

Company : Nouryon Chemicals India Private Ltd.

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

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

E-mail address :

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

Recommended use : Cleaning agent

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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 4

Acute toxicity (Dermal) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye  
irritation : Category 1

Short-term (acute) aquatic  
hazard : Category 1

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Long-term (chronic) aquatic hazard : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 + H312 Harmful if swallowed or in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**  
P301 + P317 + P330 IF SWALLOWED: Get medical help. Rinse mouth.  
P302 + P352 + P317 IF ON SKIN: Wash with plenty of water. Get medical help.  
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.  
P332 + P317 If skin irritation occurs: Get medical help.  
P391 Collect spillage.

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

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

None known.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

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#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Hexadecyltrimethylammonium chloride	112-02-7	>= 25 - < 30

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#### 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 : If breathed in, move person into fresh air.  
 Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
 Rinse immediately with plenty of water.  
 If skin irritation persists, call a physician.
- In case of eye contact : 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.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
 Never give anything by mouth to an unconscious person.  
 Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
- Notes to physician : Treat symptomatically.
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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 firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

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|---|---|---|
| Hazardous combustion products                 | : | Carbon oxides<br>Nitrogen oxides (NOx)<br>Halogenated compounds<br>Hydrogen chloride  |
| Specific extinguishing methods                | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| 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 procedures | : | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Evacuate personnel to safe areas.<br>Only qualified personnel equipped with suitable protective equipment may intervene.<br>Prevent unauthorised persons entering the zone. |
| Environmental precautions   | : | Do not flush into surface water or sanitary sewer system.<br>Discharge into the environment must be avoided.  |
| Methods and materials for containment and cleaning up               | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.   |
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#### 7. HANDLING AND STORAGE

- |   |   |  |
|---|---|--|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection.  |
| Advice on safe handling                         | : | For personal protection see section 8.<br>Avoid contact with skin, eyes and clothing.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage                     | : | Keep container tightly closed in a dry and well-ventilated place.  |

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

**Engineering measures** : Effective exhaust ventilation system  
 Ensure that eyewash stations and safety showers are close to the workstation location.

##### Personal protective equipment

Respiratory protection : In the case of vapour or aerosol formation use a respirator with an approved filter.

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.  
 When using do not eat or drink.  
 When using do not smoke.  
 Wash hands before breaks and at the end of workday.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Colour	:	light yellow
Odour	:	negligible
Odour Threshold	:	No data available
pH	:	5.0 - 8.0 Concentration: 1 %
Pour point	:	5 °C
Boiling point/boiling range	:	100 °C
Flash point	:	100 - 199 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not classified as a flammability hazard
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	:	No data available
Relative vapour density	:	No data available
Relative density	:	0.97 (20 °C)
Density	:	0.97 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	soluble

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Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: 1.5
Auto-ignition temperature	:	> 100 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	9 mPa.s ( 20 °C)
Viscosity, kinematic	:	9.3 mm <sup>2</sup> /s ( 20 °C)
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	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.
Hazardous decomposition products	:	Halogenated compounds Hydrogen chloride
Thermal decomposition	:	No data available

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#### 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

##### Components:

##### Hexadecyltrimethylammonium chloride:

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): 528 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Read-across (Analogy)

##### Skin corrosion/irritation

##### Product:

Result : Irritating to skin.

##### Components:

##### Hexadecyltrimethylammonium chloride:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Remarks : Read-across (Analogy)

##### Serious eye damage/eye irritation

##### Product:

Result : Risk of serious damage to eyes.

##### Components:

##### Hexadecyltrimethylammonium chloride:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.



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#### Respiratory or skin sensitisation

##### Components:

##### **Hexadecyltrimethylammonium chloride:**

Test Type	: Buehler Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

##### Further information

##### Product:

Remarks	: No further data available.
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## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **Hexadecyltrimethylammonium chloride:**

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 0.1 - 1 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 0.01 - 0.1 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Read-across (Analogy)
Toxicity to algae/aquatic plants	: EC50 ( Pseudokirchneriella subcapitata (green algae)): > 0.01 - 0.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Read-across (Analogy)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: > 0.001 - 0.01 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Read-across (Analogy)

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#### Persistence and degradability

##### Components:

##### **Hexadecyltrimethylammonium chloride:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

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

#### Bioaccumulative potential

##### Components:

##### **Hexadecyltrimethylammonium chloride:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1.5

#### Mobility in soil

##### Components:

##### **Hexadecyltrimethylammonium chloride:**

Mobility : Remarks: No data available

#### Other adverse effects

##### Product:

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

##### Components:

##### **Hexadecyltrimethylammonium chloride:**

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.  
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

- UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Quaternary alkyl ammonium chloride)  
Class : 9  
Packing group : III  
Labels : 9

##### IATA-DGR

- UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Quaternary alkyl ammonium chloride)  
Class : 9  
Packing group : III  
Labels : Miscellaneous Dangerous Goods  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

##### IMDG-Code

- UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Quaternary alkyl ammonium chloride)  
Class : 9

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Packing group : III  
 Labels : 9  
 EmS Code : F-A, S-F  
 Marine pollutant : yes

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## 15. REGULATORY INFORMATION

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

Convention on the prohibition of the development, production, stockpiling and use of chemical weapons and on their destruction (schedule 1) : Neither banned nor restricted

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

TCSI : On the inventory, or in compliance with the inventory  
 TSCA : All substances listed as active on the TSCA inventory  
 AIIC : On the inventory, or in compliance with the inventory  
 DSL : All components of this product are on the Canadian DSL  
 ENCS : On the inventory, or in compliance with the inventory  
 ISHL : On the inventory, or in compliance with the inventory  
 NZIoC : 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

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TECI : On the inventory, or in compliance with the inventory

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#### 16. OTHER INFORMATION

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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; 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

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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

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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