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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: N-CETYL-N,N,N TRIMETHYL AMMONIUM BROMIDE AR

Product code: 22560

Identification of the product: CetyltrimethylammoniumBromide (CETRIMIDE)

CAS No:57-09-0

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: MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel:

+91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442.

Email: info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,

Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number: +91 22 4066 8111 (10:00am - 6:00 pm).

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification: Xn; R22

Xi; R37/38-41

N; R50

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards: Specific Target Organ Toxicity - Single exposure - Respiratory tract

irritation - Category 3 - Warning (CLP: STOT SE 3) H335

Serious eye damage - Category 1 - Danger (CLP: Eye Dam. 1) H318

Acute toxicity, Oral - Category 4 - Warning (CLP: Acute Tox. 4) H302

Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315

Environmental hazards: Hazardous to the aquatic environment - Acute hazard -

Category 1 - Warning (CLP: Aquatic Acute 1) H400

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s): Xn: Harmful

N: Dangerous for the environment





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R Phrase(s): R22: Harmful if swallowed.

R36: Irritating to eyes.

R37/38: Irritating to respiratory system and skin.

R41 : Risk of serious damage to eyes. R50 : Very toxic to aquatic organisms.

R53: May cause long-term adverse effect in the aquatic environment.

S Phrase(s): S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39: Wear eye/face protection.

S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words: Danger

Hazard statements: H318: Causes serious eye damage.

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

Precautionary statements

• **Prevention**: P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P273: Avoid release to the environment.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• **Response**: P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

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

P391: Collect spillage.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P363: Wash contaminated clothing before reuse.

• Storage: P403+P233: Store in well-ventilated place. Keep container tightly closed.

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P405: Store locked up.

• **Disposal considerations**: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Other hazards: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation: N-CETYL-N,N,N TRIMETHYL AMMONIUM BROMIDE CAS No :57-09-0

Substance.

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice. Wash contaminated clothing before reuse. Specific treatment (see on this label).

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

Ingestion: Obtain emergency medical attention. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

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

Symptoms relating to use: Causes serious eye damage. Swallowing a small quantity of this material will result in serious health hazard. Causes skin irritation. May cause respiratory irritation.

4.3. Indication of any immediate medical attention and special treatment needed General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Surrounding fires: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

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Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

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

Special procedures: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders: Equip cleanup crew with proper protection.

Ventilate area.

For non-emergency personnel: Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Clean up methods: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling: Wash thoroughly after handling.

Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.

Technical protective measures: Provide good ventilation in process area to prevent formation of vapour.

Special precautions: Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

Storage - away from: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s): None.

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8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection: Avoid all unnecessary exposure.

- **Respiratory protection**: Wear approved mask.
- Hand protection : Wear protective gloves.
- Skin protection : Wear suitable protective clothing.
- Eye protection : Chemical goggles or safety glasses.
- Others: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits: No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.

Odour: Odorless

Odour threshold: No data available.

pH value: No data available.

Melting point [°C]: 248 - 251 °C

Decomposition point [°C]: N/A

Critical temperature [°C]: N/A

Auto-ignition temperature [°C] : N/A

Flammability (solid, gas): N/A

Flash point [°C] : 244 °C Boiling point [°C] : N/A

Initial boiling point [°C] : N/A Final boiling point [°C] : N/A

Evaporation rate: N/A

Vapour pressure [20°C] : N/A Vapour pressure mm/Hg : N/A

Vapour density : N/A Density [g/cm3] : N/A

Relative density, gas (air=1) : N/A Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : 36.4 g/l at 20 °C -

Solubility in water: N/A

Log Pow octanol / water at 20°C : No data available.

Solubility: 5 - 7

Viscosity at 40°C [mm2/s]: N/A

9.2. Other information

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Explosive properties: N/A

Explosion limits - upper [%]: N/A Explosion limits - lower [%]: N/A Oxidising properties: No data available...

10. Stability and reactivity

10.1. Reactivity

Reactivity: Not established. **10.2. Chemical stability**

Chemical stability: Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong bases. 10.6. Hazardous decomposition products

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- Inhalation: Based on available data, the classification criteria are not met.
- **Dermal**: Based on available data, the classification criteria are not met.
- Ingestion : Harmful if swallowed.

Corrosion: Causes serious eye damage.

Irritation: Causes skin irritation. May cause respiratory irritation.

Sensitization: Based on available data, the classification criteria are not met. **Mutagenicity**: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Toxic for reproduction: Based on available data, the classification criteria are not met. **STOT-single exposure**: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met

Aspiration hazard: Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Toxicity information: Very toxic to aquatic life.

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12.2. Persistence - degradability

Persistence - degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Not established.

12.4. Mobility in soil

Mobility in soil: Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions: Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. UN N°: 3077 H.I. nr: 90 ADR - Class: 9

Labelling - Transport: 9: Miscellaneous dangerous substances and articles.

ADR - Classification code : M7

ADR - Group : III

ADR - Packing instructions: P002 R001 LP002

ADR - Limited Quantity: 5 KG

ADR - Tunnel code : E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

UN N°: 3077

IMO-IMDG - Class or division: 9: Miscellaneous dangerous substances and articles.

IMO-IMDG - Packing group: III

IMO- IMDG - Packing instructions: P002 LP02

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IMO-IMDG - Limited quantities : 5 kg **IMO-IMDG - Marine pollution** : Yes

EMS-Nr: F-A S-F

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. **UN N**°: 3077

IATA - Class or division: 9: Miscellaneous dangerous substances and articles.

IATA - Packing group: III

IATA - Passenger and Cargo Aircraft : ALLOWED - Passenger and Cargo - Packing : 956 instruction

- Passenger and Cargo - Maximum: 400 kg

Quantity/Packing IATA - Cargo only : ALLOWED

Cargo only - Packing instruction: 956
 Cargo only - Maximum Quantity/: 400 kg
 Packing IATA - Limited Quantites: 30 kg G

ERG-Nr: 9L

15. Regulatory information

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

Safety, health and environmental: Ensure all national/local regulations are observed. **regulations/legislation specific for the substance or mixture**

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

16. Other information

Abbreviations and acronyms: PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information: None.

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation

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