



CYNOR LABORATORY

Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.
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MATERIAL SAFETY DATA SHEET

Product Name	N-ACETYL-L-CYSTEINE
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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: N-ACETYL-L-CYSTEINE FOR BIOCHEMISTRY

Product code: A0040

Identification of the product: N-ACETYL-L-CYSTEINE FOR BIOCHEMISTRY

CAS No: 616-91-1

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: CYNOR

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

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2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word

Warning

Hazard statement(s)

Causes serious eye irritation.

H319

Precautionary statement(s)

Wash skin thoroughly after handling.

P264

Wear eye protection/ face protection.

P280

IF IN EYES: Rinse cautiously with water for several minutes.

P305 + P351 + P338

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

P337 + P313

If eye irritation persists: Get medical advice/ attention.

Supplemental Hazard Statements none

Reduced Labeling (<= 125 ml)

Pictogram



Signal Word Warning
 Hazard statement(s) none
 Precautionary statement(s) none
 Supplemental Hazard Statements none

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.

3. Composition/information on ingredients

3.1 Substances

Formula	:	C5H9NO3S	
Molecular weight	:	163,20 g/mol	
CAS-No.	:	616-91-1	
EC-No.	:	210-498-3	
Component	Classification		Concentration
acetylcysteine	Eye Irrit. 2; H319		
CAS-No. 616-91-1		<= 100 %	
EC-No. 210-498-3			

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.



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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

5. Fire-fighting 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

Carbon oxides Nitrogen

oxides (NO_x) Sulfur

oxides Combustible.

Fire may cause evolution of:

Sulfur oxides, nitrogen oxides, nitrous gases

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

7.3. Specific end use(s)

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

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.
- **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

a) Physical state	solid
b) Color	light yellow
c) Odor	weakly of acetic acid
d) Melting point/freezing point	Melting point: 110,4 °C at 1.013,25 hPa - OECD Test Guideline 102
e) Initial boiling point boiling range	143,9 - 145,3 °C at 1.013,25 hPa - OECD Test Guideline 103and
f) Flammability (solid, gas)	The product is not flammable. - Test N.1: Test method for readily combustible solids
g) Upper/lower flammability or explosive limits	No data available
h) Flash point	Not applicable
i) Autoignition temperature	No data available
j) Decomposition temperature	No data available
k) pH	No data available
l) Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m) Water solubility	179,5 g/l at 20 °C - OECD Test Guideline 105



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n) Partition coefficient: octanol/water	log Pow: -0,6 at 23 °C - OECD Test Guideline 107 - n- Bioaccumulation is not expected.
o) Vapor pressure	< 0,1 hPa at 20 °C - OECD Test Guideline 104
p) Density	1,48 g/cm3 at 20 °C - OECD Test Guideline 109
Relative density	1,48 at 20 °C - OECD Test Guideline 109
q) Relative vapor density	No data available
r) Particle characteristics	No data available
s) Explosive properties	
t) Oxidizing properties	none

9.2. Other information

Bulk density	ca.730 kg/m3
Particle size	493,7 µm - OECD Test Guideline 110 - Mean particle size

10. Stability and reactivity

10.1. Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

Violent reactions possible with: Strong
oxidizing agents

10.4. Conditions to avoid

no information available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: 2 - 2.75
Serious eye damage/irritation	: Not classified pH: 2 - 2.75
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified



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Reproductive toxicity : Not classified
Specific target organ toxicity : Not classified (single exposure)
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified

12. Ecological information

12.1. Toxicity

Toxicity to daphnia other aquatic invertebrates : static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 hand (OECD Test Guideline 202)
Toxicity to algae : static test ErC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h (OECD Test Guideline 201)

12.2. Persistence - degradability

Biodegradability : aerobic - Exposure time 28 d
Result: 76 % - Readily biodegradable.
(OECD Test Guideline 301F)

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. 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.

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.

12.7 Other adverse effects

Discharge into the environment must be avoided.

13. Disposal considerations

13.1. Waste treatment methods

Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information



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14.1. UN number

ADR/RID: -

IMDG: -

IATA: -

14.2. UN proper shipping name

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

14.3. Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. **Other regulations**

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not 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) N° 1907/2006 and with CLP Regulation(CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.



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This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document

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