



CYNOR LABORATORY

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MATERIAL SAFETY DATA SHEET

Product Name	ACRYLONITRILE (STABILIZED)
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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : ACRYLONITRILE (STABILIZED)

Product code : A0065

Identification of the product ACRYLONITRILE (STABILIZED)

CAS No : 107-13-1

1.2 Relevant identified uses of the substance or mixture and uses advised

againstUse: 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 [CLP]

Flammable liquids, H225

Category 2

Carcinogenicity, H350

Category 1B

Acute toxicity(dermal),H311

Category 3

Acute toxicity (inhal.), H331

Category 3

Acute toxicity (oral), H301

Category 3

Serious eye damage/eye

Irritation H301

, Category 1

H318

Skin corrosion/irritation,

H315Category 2

Specific target organ

toxicity — Singleexposure,

H335 Category 3,

Respiratory tract irritation

Skin sensitisation, H317

Category 1

Hazardous to the aquatic

environment — Chronic

Hazard, H411 Category 2

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label element

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

display Extra classification(s) to display

Symbol(s): T : Very toxic

N : Dangerous for the environment

Highly flammable



R Phrase(s) : R45. May cause

cancer. R11. Highly flammable.

R38. Irritating to skin.

R41. Risk of serious damage to eyes.

R43. May cause sensitization by skin contact.

R23/24/25 Toxic by Inhalation, in contact with skin and if swallowed.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s) : S16. Keep away from source of ignition-No smoking. S9.

keep container in a well ventilated place.

S53. Avoid exposure – obtain special instruction before use.

S45. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61. avoid release to the environment . refer to special instruction/safety data sheets.

Hazard pictograms



Signal word - Danger

Hazard statements : H225 - Highly flammable liquid and vapour.

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H315 - Causes skin irritation.

H317 - May cause an allergic skin

reaction. H318 - Causes serious eye

damage.

H335 - May cause respiratory

irritation. H350 - May cause cancer.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements : P201 - Obtain special instructions before use.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor

2.3 Other hazards

No additional information available

3. Composition/information on ingredients

Substance / Preparation: ACRYLONITRILE (STABILIZED)

CAS No : 107-13-1

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

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Take off contaminated clothing. Gently wash with plenty of soap and water. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Toxic if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Toxic in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Toxic if swallowed.

Chronic symptoms : May cause cancer.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). earth, sand, dry chemical powder or foam. Water spray.

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

5.2 Specific hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in

case of fire: Thermal decomposition generates : Toxic fumes may be released.

5.3 Advice for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2 Environmental precautions

Toxic to aquatic life with long lasting effect.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Soak upspills with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4 Reference to other sections

No additional information available

7. Handling and storage

7.1 Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : No open flames. No smoking. Use only non-sparking tools.

Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Heat sources.

7.3 Specific end use(s)

No additional information available

8. Exposure controls/personal protection

8.1 Control parameter

No additional information available

8.2 Exposure control

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Odour threshold : 21.4 ppm

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -83 °C

Freezing point : No data available

Boiling point : 77.3 °C

Flash point : 5 °C

Critical temperature : 262.78 °C

Auto-ignition temperature : 481 °C

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable

Highly flammable liquid and vapour.

Vapour pressure : 11.1 kPa

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 0.806 g/cm³

Relative gas density : 1.8

Solubility : Water: slightly soluble

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 0.03 - 0.17 vol %

9.2 Other information

No additional information available

10. Stability and reactivity

10.1 Reactivity

Flammable liquid and vapour.

10.2 Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3 Possibility of hazardous reactions

No additional information available

10.4 Conditions to avoid

Open flame. Direct sunlight.

10.5 Incompatible materials

No additional information available

10.6 Hazardous decomposition products

No additional information available

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity : Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed. Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage. Respiratory or skin sensitisation : May cause an allergic skin reaction. Germ cell

mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms: Toxic if swallowed. Toxic in contact with skin.

12. Ecological information

12.1 Toxicity

Ecology -water: Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

ACRYLONITRILE (Stabilised) 99% (107-13-1)

Persistence and degradability May cause long-term adverse effects in the environment.

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

13. Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal recommendations: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Hazardous waste due to toxicity.

14. Transport information

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

14.1 UN number

UN-No. (ADR) : 1093

UN-No. (IMDG) : 1093

UN-No. (IATA) : 1093

UN-No. (ADN) : 1093

UN-No. (RID) : 1093



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14.2 UN proper shipping name

Proper Shipping Name (ADR) : ACRYLONITRILE, STABILIZED Proper
Shipping Name (IMDG) : ACRYLONITRILE, STABILIZED Proper
Shipping Name (IATA) : Acrylonitrile, stabilized
Proper Shipping Name (ADN) : ACRYLONITRILE, STABILIZED Proper
Shipping Name (RID) : ACRYLONITRILE, STABILIZED
Transport document description (ADR) : UN 1093 ACRYLONITRILE, STABILIZED, 3(6.1), I,
(C/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG) : UN 1093 ACRYLONITRILE, STABILIZED, 3 (6.1), I,
MARINE
POLLUTANT/ENVIRONMENTALLY HAZARDOUS (-5°C c.c.)
Transport document description (IATA) : UN 1093 Acrylonitrile, stabilized, 3 (6.1), I,
ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN) : UN 1093 ACRYLONITRILE, STABILIZED, 3(6.1), I,
ENVIRONMENTALLY HAZARDOUS
Transport document description (RID) : UN 1093 ACRYLONITRILE, STABILIZED, 3(6.1), I,
ENVIRONMENTALLY HAZARDOUS

14.3 Transport hazard class(es)

ADR : Transport hazard class(es) (ADR) : 3 (6.1)
Danger labels (ADR) : 3, 6.1
IMDG : Transport hazard class(es) (IMDG) : 3 (6.1)
Danger labels (IMDG) : 3, 6.1
IATA : Transport hazard class(es) (IATA) : 3 (6.1)
Hazard labels (IATA) : 3, 6.1
AND : Transport hazard class(es) (ADN) : 3 (6.1)
Danger labels (ADN) : 3, 6.1
RID : Transport hazard class(es) (RID) : 3 (6.1)
Danger labels (RID) : 3, 6.1

14.4 Packing group

Packing group (ADR) : I
Packing group (IMDG) : I
Packing group (IATA) : I
Packing group (ADN) : I
Packing group (RID) : I

14.5 Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : No supplementary information available

14.6 Special precautions for user

Overland transport: Classification code (ADR) : FT1
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P001
Mixed packing provisions (ADR) : MP7, MP17
Portable tank and bulk container
instructions (ADR): T14
Portable tank and bulk container special provisions (ADR) : TP2
Tank code (ADR) : L10CH



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Tank special provisions (ADR) : TU14, TU15, TE21

Vehicle for tank carriage : FL

Transport category (ADR) : 1

Special provisions for carriage - Loading,unloading and handling (ADR): CV13, CV28

Special provisions for carriage - Operation(ADR): S2, S22

Hazard identification number (Kemler No.) : 336

Orange plates :

Tunnel restriction code (ADR) : C/E

EAC code : •3WE

APP code : A(fl)

- Transport by sea

Limited quantities (IMDG) : 0

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P00

1Tank instructions (IMDG) : T14

Tank special provisions (IMDG) : TP2, TP13

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

Stowage category (IMDG) : E

Stowage and handling (IMDG) : SW2

Flash point (IMDG) : -5°C c.c.

MFAG-No : 131P

- Air transport-PCA Excepted quantities (IATA) : E0

PCA Limited quantities (IATA) : Forbidden

PCA limited quantity max net quantity(IATA) : Forbidden

PCA packing instructions (IATA) : Forbidden

PCA max net quantity (IATA) : Forbidden

CAO packing instructions (IATA) : 361

CAO max net quantity (IATA) : 30L

ERG code (IATA) : 3P

Inland waterway transport- Classification code (ADN) : FT1

Special provisions (ADN) : 802

Limited quantities (ADN) : 0

Excepted quantities (ADN) : E0

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, EX, TOX, A

Ventilation (ADN) : VE01, VE02

Number of blue cones/lights (ADN) : 2

Rail transport- Classification code (RID) : FT1

Limited quantities (RID) : 0

Excepted quantities (RID) : E0

Packing instructions (RID) : P001

Mixed packing provisions (RID) : MP7, MP17

Portable tank and bulk container

instructions (RID): T14

Portable tank and bulk container special

provisions (RID): TP2

Tank codes for RID tanks (RID) : L10CH



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Special provisions for RID tanks (RID) : TU14, TU15, TU38, TE21, TE22

Transport category (RID) : 1

Special provisions for carriage - Loading,unloading and handling (RID) : CW13, CW28

Hazard identification number (RID) : 336

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

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

15.1.1 EU-Regulations

No REACH Annex XVII restrictions

ACRYLONITRILE (Stabilised) is not on the REACH Candidate List

ACRYLONITRILE (Stabilised) is not on the REACH Annex XIV List

15.1.2 National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water
(Classification according to AwSV; ID No. 10)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV
: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : ACRYLONITRILE (Stabilised) 99% Extra
Pure is listed

SZW-lijst van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Borstvoeding : The substance is not listed
NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Vruchtbaarheid:
The substance is not listed
NIET-limitatieve lijst
van voor de

voortplanting giftige stoffen – Ontwikkeling: The substance is not listed

Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage
of flammable
liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed
to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact
with the product

The requirements from the Danish Working Environment Authorities regarding work with
carcinogens must be followed during use and disposal

15.2 Chemical safety assessment

No additional information available



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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.

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End of document

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