CAS-No.: 79-06-1 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Chemical structure

Product form : Substance

:

 EC-No.
 : 201-173-7

 CAS-No.
 : 79-06-1

 Product code
 : 00620

 Formula
 : C3H5NO

H₂N CH₂

Synonyms : Acrylic acid amide / 2-Propenamide

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,
Ludhiana Pb. (141007)
+91 9316777775, +91 7707855700

sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H301
Category 3
Acute toxicity (dermal), H312
Category 4
Acute toxicity (inhal)

Acute toxicity (inhal.), H332

Category 4

Skin corrosion/irritation, H315

Category 2

Serious eye damage/eye H319

irritation, Category 2

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Skin sensitisation,

H317

Category 1

Germ cell mutagenicity,

Category 1A

H340

Carcinogenicity, Category H350

Reproductive toxicity,

H361f

Category 2

Specific target organ

H372

toxicity — Repeated exposure, Category 1

Full text of H statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.1; R45 Muta.Cat.1; R46

T; R23 T; R24 T; R25

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. **Label elements**

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

Hazard pictograms (CLP)





GHS06

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H301 - Toxic if swallowed.

H312+H332 - Harmful in contact with skin or if inhaled

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eve irritation. H340 - May cause genetic defects.

H350 - May cause cancer.

H361f - Suspected of damaging fertility.

H372 - Causes damage to organs through prolonged or repeated exposure.

: P201 - Obtain special instructions before use. Precautionary statements (CLP)

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

P301+P310 - IF SWALLOWED: Immediately call a doctor.

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

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention.

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2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : ACRYLAMIDE FOR SYNTHESIS

CAS-No. : 79-06-1 EC-No. : 201-173-7

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Allow affected person to breathe fresh air. If breathing is difficult, remove victim to

fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of water/.... Get medical advice/attention. Wash contaminated

clothing before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention.

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

Symptoms/effects : May cause genetic defects. May cause cancer. Suspected of damaging fertility.

Causes damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation : Harmful if inhaled.

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

reaction.

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

Symptoms/effects after ingestion : Toxic if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Soak up spills with inert solids,

such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed

areas with mild soap and water before eating, drinking or smoking and when leaving

work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 71.08 g/mol Colour : White powder.

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Odour : odourless.

Odour threshold : No data available

pH : No data available

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

Melting point : 83 - 85 °C

Freezing point : No data available

Boiling point : 125 °C

Flash point : No data available

Auto-ignition temperature : 240 °C

Decomposition temperature : 84 °C

Flammability (solid, gas) : No data available

Vapour pressure : 0.007 mm Hg at 20 °C

Relative vapour density at 20 °C : 2.45

Relative density : No data available

Density : 1.122 g/cm³
Solubility : Water: 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 : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Water, humidity. Moisture. Air contact.

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed. Harmful in contact with skin. Harmful if inhaled.

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Reproductive toxicity : Suspected of damaging fertility.

STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Toxic if swallowed. Toxic in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

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

ACRYLAMIDE FOR SYNTHESIS (79-06-1)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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12.6. Other adverse effects

No additional information available

SECTION 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.

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 2074 UN-No. (IMDG) : 2074 UN-No. (IATA) : 2074 UN-No. (ADN) : 2074 UN-No. (RID) : 2074

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ACRYLAMIDE, SOLID
Proper Shipping Name (IMDG) : ACRYLAMIDE, SOLID
Proper Shipping Name (IATA) : Acrylamide, solid
Proper Shipping Name (ADN) : ACRYLAMIDE, SOLID
Proper Shipping Name (RID) : ACRYLAMIDE, SOLID

Transport document description (ADR)

Transport document description (IMDG)

Transport document description (IATA)

Transport document description (ADN)

Transport document description (ADN)

Transport document description (RID)

Transport document description (RID)

Transport document description (RID)

Transport document description (RID)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1 Danger labels (ADR) : 6.1



IMDG

Transport hazard class(es) (IMDG) : 6.1 Danger labels (IMDG) : 6.1



IATA

Transport hazard class(es) (IATA) : 6.1

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Hazard labels (IATA) : 6.1

6

ADN

Transport hazard class(es) (ADN) : 6.1 Danger labels (ADN) : 6.1



RID

Transport hazard class(es) (RID) : 6.1 Danger labels (RID) : 6.1



14.4. Packing group

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

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

: TP33

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : T2
Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : B3

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container : T1

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAH, L4BH Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT

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Transport category (ADR) : 2

Special provisions for carriage - Bulk : VC1, VC2, AP7

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13, CV28

Special provisions for carriage - Operation : S9

Hazard identification number (Kemler No.) : 60 Orange plates

60 2074

: E Tunnel restriction code (ADR) EAC code : 2X

- Transport by sea

Limited quantities (IMDG) : 5 kg Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P002, LP02 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B3 Tank instructions (IMDG) : T1 Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-A : S-A EmS-No. (Spillage) : A Stowage category (IMDG) : SW1, H2 Stowage and handling (IMDG)

MFAG-No : 153P

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y645 PCA limited quantity max net quantity : 10kg

(IATA)

PCA packing instructions (IATA) : 670 PCA max net quantity (IATA) : 100kg CAO packing instructions (IATA) : 677 CAO max net quantity (IATA) : 200kg ERG code (IATA) : 6L

- Inland waterway transport

Classification code (ADN) : T2 Special provisions (ADN) : 802 Limited quantities (ADN) : 5 kg Excepted quantities (ADN) : E1 Carriage permitted (ADN) : T Equipment required (ADN) : PP, EP Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : T2 Limited quantities (RID) : 5kg Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : B3 Mixed packing provisions (RID) : MP10

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Portable tank and bulk container

instructions (RID)

: T1

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAH, L4BH

Special provisions for RID tanks (RID) : TU15 Transport category (RID) : 2

Special provisions for carriage - Bulk

(RID)

: VC1, VC2, AP7

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW28, CW31

Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 60

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Acrylamide is on the REACH Candidate List

ACRYLAMIDE FOR SYNTHESIS 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. 716)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : ACRYLAMIDE FOR SYNTHESIS is listed : ACRYLAMIDE FOR SYNTHESIS is listed SZW-lijst van mutagene stoffen

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

: ACRYLAMIDE FOR SYNTHESIS is listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

: The substance is not listed

Denmark

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

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

| Full text of R-, H- and EUH-statements: | |
|---|---|
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Carc. 1A | Carcinogenicity, Category 1A |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Muta. 1A | Germ cell mutagenicity, Category 1A |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |
| H301 | Toxic if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |
| H361f | Suspected of damaging fertility. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| R23 | Toxic by inhalation |
| R24 | Toxic in contact with skin |
| R25 | Toxic if swallowed |
| R45 | May cause cancer |
| R46 | May cause heritable genetic damage |
| Т | Toxic |
| | |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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