



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and
Regulation (EC) No. 1272/2008

Revision date 08-Apr-2025

Version 9

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

1.1. Product identifier

Product No E7325
Product name Linear Acrylamide
Pure substance/mixture Mixture

Contains Acrylamide

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

Recommended use This product is for research and development only
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address
New England BioLabs
240 County Road
Ipswich, MA 01938
USA

For further information, please contact

Company Phone Number 978-927-5054, 800-632-5227 (toll free)
Telefax 978-921-1350
E-mail address info@neb.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number Chemtrec +44 20 3885 0382

| | |
|---------------|------------------------|
| Europe | +1 978-380-2125 |
|---------------|------------------------|

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

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

| | |
|-------------------------------|----------------------|
| Germ cell mutagenicity | Category 1B - (H340) |
| Carcinogenicity | Category 1B - (H350) |

2.2. Label elements

Contains Acrylamide

**Signal word**

Danger

Hazard statements

H340 - May cause genetic defects

H350 - May cause cancer

EUH208 Contains Acrylamide May produce an allergic reaction.

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

No information available.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

| Chemical name | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|-----------------------|----------|---------------------------|-----------------------------|--|------------------------------------|----------|----------------------|
| Acrylamide 79-06-1 | 0.1 - 1 | No data available | 201-173-7 (616-003-00-0) | Acute Tox. 3 (H301) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Muta. 1B (H340) Carc. 1B (H350) Repr. 2 (H361f) STOT RE 1 (H372) | - | - | - |

Full text of H- and EUH-phrases: see section 16Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|-----------------------|-----------------|-------------------|---|---|--------------------------------------|
| Acrylamide 79-06-1 | 124 | 1148 | No data available | No data available | No data available |

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

| Chemical name | CAS No. | SVHC candidates |
|---------------|---------|-----------------|
| Acrylamide | 79-06-1 | X |

SECTION 4: First aid measures**4.1. Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

Inhalation

Remove to fresh air.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Ingestion

Rinse mouth.

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

| | |
|---------------------|--------------------------------------|
| Symptoms | No information available. |
| Effects of Exposure | May cause cancer. Mutagenic effects. |

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

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Ensure adequate ventilation.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling**Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

Store locked up.

Storage class (TRGS 510)

Storage class 6.1C.

7.3. Specific end use(s)

Risk management methods [RMM] The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|-----------------------|---|---|--|--|---|
| Acrylamide 79-06-1 | TWA: 0.1 mg/m ³ Sk* | Sk* Sh+ | TWA: 0.03 mg/m ³ Sk* | TWA: 0.1 mg/m ³ Sk* | TWA: 0.1 mg/m ³ Sk* Skin Sensitisation |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Acrylamide 79-06-1 | TWA: 0.1 mg/m ³ Sk* | TWA: 0.1 mg/m ³ Sk* S+ | TWA: 0.03 mg/m ³ STEL: 0.06 mg/m ³ Sk* | TWA: 0.03 mg/m ³ STEL: 0.1 mg/m ³ Sk* | TWA: 0.03 mg/m ³ TWA: 0.1 mg/m ³ Sk* |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| Acrylamide 79-06-1 | TWA: 0.1 mg/m ³ Sk* | Sk* | Sk* skin sensitizer | TWA: 0.1 mg/m ³ Sk* | TWA: 0.1 mg/m ³ Sk* |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| Acrylamide 79-06-1 | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ Sk* | TWA: 0.1 mg/m ³ Sk* | TWA: 0.03 mg/m ³ Sk* | TWA: 0.1 mg/m ³ Sk* | TWA: 0.03 mg/m ³ STEL: 0.1 mg/m ³ Sk* |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| Acrylamide 79-06-1 | - | - | TWA: 0.1 mg/m ³ Sk* | TWA: 0.03 mg/m ³ STEL: 0.09 mg/m ³ Sk* | TWA: 0.07 mg/m ³ Sk* |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| Acrylamide 79-06-1 | TWA: 0.03 mg/m ³ Sk* | TWA: 0.1 mg/m ³ Sk* | TWA: 0.1 mg/m ³ STEL: 0.15 mg/m ³ Sk* | TWA: 0.1 mg/m ³ Sk* | TWA: 0.03 mg/m ³ Sk* Sen+ |
| Chemical name | Sweden | | Switzerland | | United Kingdom |
| Acrylamide 79-06-1 | NGV: 0.03 mg/m ³ Bindande KGV: 0.1 mg/m ³ Sk* | | TWA: 0.03 mg/m ³ Sk* S+ | | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ Sk* |

Biological occupational exposure limits

| Chemical name | Denmark | Finland | France | Germany DFG | Germany TRGS |
|-----------------------|---------|---------|--------|---|--------------|
| Acrylamide 79-06-1 | - | - | - | 550 pmol/g Globin - BLW (after exposure) | - |

| | | | | for at least 3 months) erythrocytes 50 pmol/g Globin - BAR (after exposure for at least 3 months) erythrocytes 100 µg/g Creatinine - BAR (end of exposure or end of shift) urine 200 pmol/g Globin - (after exposure for at least 3 months) - erythrocyte fraction of whole blood 400 pmol/g Globin - (after exposure for at least 3 months) - erythrocyte fraction of whole blood 550 pmol/g Globin - (after exposure for at least 3 months) - erythrocyte fraction of whole blood 800 pmol/g Globin - (after exposure for at least 3 months) - erythrocyte fraction of whole blood 1600 pmol/g Globin - (after exposure for at least 3 months) - erythrocyte fraction of whole blood | |
|-----------------------|--|--|-------------|--|--|
| Chemical name | Hungary | Ireland | Italy MDLPS | Italy AIDII | |
| Acrylamide 79-06-1 | - | 0.5 nmol/g hemoglobin (blood - N-2-Carbamoylethyl-valine adduct post shift toward the end of the working week) | - | - | |
| Chemical name | Slovenia | Spain | Switzerland | United Kingdom | |
| Acrylamide 79-06-1 | 800 pmol/g Globin - erythrocyte fraction of the whole blood (N-(2-Carbonamidethyl)valine) - after a minimum of 3 months exposure | - | - | - | |

Derived No Effect Level (DNEL) - Workers

| Chemical name | Oral | Dermal | Inhalation |
|---|------|----------------------------|--|
| Tris-HCl 1185-53-1 | - | 216.6 mg/kg bw/day [4] [6] | 152.8 mg/m ³ [4] [6] |
| Ethylenediamine tetraacetic acid 60-00-4 | - | - | 1.5 mg/m ³ [5] [6] 3 mg/m ³ [5] [7] |

Notes

| | |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [5] | Local health effects. |
| [6] | Long term. |
| [7] | Short term. |

Derived No Effect Level (DNEL) - General Public

| Chemical name | Oral | Dermal | Inhalation |
|---|---------------------------|--------|--|
| Tris-HCl 1185-53-1 | 10.8 mg/kg bw/day [4] [6] | - | 37.7 mg/m ³ [4] [6] |
| Ethylenediamine tetraacetic acid 60-00-4 | 25 mg/kg bw/day [4] [6] | - | 0.6 mg/m ³ [5] [6] 1.2 mg/m ³ [5] [7] |

Notes

| | |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [5] | Local health effects. |
| [6] | Long term. |
| [7] | Short term. |

Predicted No Effect Concentration (PNEC)

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|---|------------|--------------------------------------|--------------|--|-----|
| Ethylenediamine tetraacetic acid 60-00-4 | 2.2 mg/L | 1.2 mg/L | 0.22 mg/L | - | - |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|---|------------------------|-----------------|------------------|--------------------|------------|
| Ethylenediamine tetraacetic acid 60-00-4 | - | - | 43 mg/L | 0.72 mg/kg soil dw | - |

8.2. Exposure controls**Engineering controls**

No information available.

**Individual protection measures,
such as personal protective
equipment****Eye/face protection**

No special protective equipment required.

Hand protection

Wear suitable gloves.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------|--------------------------|
| Physical state | Liquid |
| Appearance | Colorless |
| Color | No information available |
| Odor | Odorless. |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|--------------------------|-------------------------|
| Melting point / freezing point | No data available | None known |
| Initial boiling point and boiling range | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Flash point | No data available | None known |
| Autoignition temperature | 424 °C | |
| Decomposition temperature | | None known |
| pH | 7.5 | |
| pH (as aqueous solution) | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Water solubility | No data available | None known |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Vapor pressure | No data available | None known |
| Relative density | No data available | None known |
| Bulk density | No data available | |
| Liquid Density | No data available | |
| Vapor density | No data available | None known |
| Particle characteristics | | |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 62,000.00 mg/kg

ATEmix (dermal) 99,999.00 mg/kg

ATEmix (inhalation-gas) 99,999.00 ppm

ATEmix (inhalation-vapor) 99,999.00 mg/l

ATEmix (inhalation-dust/mist) 99,999.00 mg/l

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|---------------------|-------------------------|-----------------|
| Acrylamide | = 124 mg/kg (Rat) | = 1148 mg/kg (Rabbit) | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

| Chemical name | European Union |
|---------------|----------------|
| Acrylamide | Muta. 1B |

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | European Union |
|---------------|----------------|
| Acrylamide | Carc. 1B |

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available for ingredients.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union |
|---------------|----------------|
| Acrylamide | Repr. 2 |

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------|----------------------|---|----------------------------|------------------------------------|
| Acrylamide | - | LC50: 103 - 115mg/L (96h, Pimephales promelas) LC50: =124mg/L (96h, Pimephales promelas) LC50: 81 - 150mg/L (96h, Lepomis macrochirus) LC50: 137 - 191mg/L (96h, Oncorhynchus mykiss) LC50: 74 - 150mg/L (96h, Oncorhynchus mykiss) | - | EC50: =98mg/L (48h, Daphnia magna) |

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential**Bioaccumulation****Component Information**

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Acrylamide | -0.9 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name | PBT and vPvB assessment |
|---------------|-------------------------|
| Acrylamide | Not PBT/vPvB |

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information**IATA**

| | |
|------------------------------------|---------------------|
| 14.1 UN number or ID number | UN3426 |
| 14.2 Extended Proper Shipping Name | Acrylamide Solution |
| 14.3 Transport hazard class(es) | 6.1 |
| 14.4 Packing group | III |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

IMDG

| | |
|--|--------------------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 Extended Proper Shipping Name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |

RID

| | |
|------------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 Extended Proper Shipping Name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

ADR

| | |
|-----------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Netherlands**

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|---------------|-----------------------------------|--------------------------------|---|
| Acrylamide | Present | Present | Fertility Category 1B |

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) This product contains one or more substance(s) subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|----------------------|---|--|
| Acrylamide - 79-06-1 | 28 29 60 75 | - |

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

International Inventories

| | |
|----------------------|--|
| TSCA | Contact supplier for inventory compliance status |
| DSL/NDSL | Contact supplier for inventory compliance status |
| EINECS/ELINCS | Contact supplier for inventory compliance status |
| ENCS | Contact supplier for inventory compliance status |
| IECSC | Contact supplier for inventory compliance status |
| KECL | Contact supplier for inventory compliance status |
| PICCS | Contact supplier for inventory compliance status |
| AIC | Contact supplier for inventory compliance status |
| NZIoC | Contact supplier for inventory compliance status |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15

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

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |
| + | Sensitizers | | |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 08-Apr-2025**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

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End of Safety Data Sheet