1 Identification

Product name: Acetamide

Stock number: A12589
CAS Number: 60-35-5
EC number: 200-473-5
Index number: 616-022-00-4

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

Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757
Email: tech@alfa.com
www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number:
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Hazards not otherwise classified No information known.

Label elements

GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

Hazard pictograms

GHS08

Signal word Warning

Hazard statements
H351 Suspected of causing cancer.

Precautionary statements
P281 Use personal protective equipment as required.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P304-P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS classification
D2A - Very toxic material causing other toxic effects

Classification system

HMIS ratings (scale 0-4) (Hazardous Materials Identification System)

Health (acute effects) = 1
Flammability = 1
Physical Hazard = 1

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

CAS# Description: 60-35-5 Acetamide

Identification number(s):

EC number: 200-473-5
Index number: 616-022-00-4

4 First-aid measures

Description of first aid measures

After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
Safety Data Sheet
per OSHA HazCom 2012

Product name: Acetamide

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)

Advice for firefighters

Protective equipment:
Wear self-contained respirator.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.

Environmental precautions: Do not allow product to reach sewage system or any water course.

Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13.

Prevention of secondary hazards: No special measures required.

Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

Handling

Precautions for safe handling

Handle under dry protective gas.
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.

Information about protection against explosions and fires: No information known.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility:

Store away from water/moisture.
Do not store together with acids.
Store away from strong bases.
Store away from oxidizing agents.
Store away from reducing agents.

Further information about storage conditions:

Store under dry inert gas.
This product is hygroscopic.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Protect from humidity and water.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:

60-35-5 Acetamide (100.0%)

EL (Canada) IARC 2B

Additional information: No data

Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Maintain an ergonomically appropriate working environment.

Breathing equipment: Use suitable respirator when high concentrations are present.

Recommended filter device for short term use:

Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.

Protection of hands:

Impervious gloves

Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

Material of gloves Nitrile rubber, NBR

Penetration time of glove material (in minutes) >480

Glove thickness 0.11 mm

Eye protection: Safety glasses

Body protection: Protective work clothing.
## 9 Physical and chemical properties

### General Information

- **Appearance:** Crystalline or powder
- **Color:** White
- **Odor:** Not determined
- **Odor threshold:** Not determined.
- **pH-value:** Not applicable.

### Change in condition

- **Melting point/Melting range:** 76-81 °C (169-178 °F)
- **Boiling point/Boiling range:** 220-222 °C (428-432 °F)
- **Sublimation temperature/start:** Not determined
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:** Not determined
- **Decomposition temperature:** Not determined
- **Auto igniting:** Not determined.

### Danger of explosion:

- **Lower:** Not determined
- **Upper:** Not determined

### Vapor pressure:

- **Density at 20 °C (68 °F):** 1.159 g/cm³ (9.672 lbs/gal)
- **Relative density:** Not determined.
- **Vapor density:** Not applicable.
- **Evaporation rate:** Not applicable.

### Solubility in:

- **Water at 20 °C (68 °F):** 2000 g/l
- **Partition coefficient (n-octanol/water):** Not determined.

### Viscosity:

- **Dynamic:** Not applicable.
- **Kinematic:** Not applicable.

### Other information

No further relevant information available.

## 10 Stability and reactivity

### Reactivity

- No information known.

### Chemical stability

- Stable under recommended storage conditions.

### Thermal decomposition / conditions to be avoided

- Decomposition will not occur if used and stored according to specifications.

### Possibility of hazardous reactions

- Reacts with strong oxidizing agents

### Conditions to avoid

No further relevant information available.

### Incompatible materials:

- Acids
- Oxidizing agents
- Water/moisture
- Bases
- Reducing agents

### Hazardous decomposition products:

- Carbon monoxide and carbon dioxide
- Nitrogen oxides

## 11 Toxicological information

### Information on toxicological effects

### Acute toxicity

- The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

### LD/LC50 values that are relevant for classification:

- Oral (LD50) 7000 mg/kg (rat)

### Skin irritation or corrosion:

- May cause irritation

### Eye irritation or corrosion:

- May cause irritation

### Sensitization:

- No sensitizing effects known.

### Germ cell mutagenicity

- The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.

### Carcinogenicity:

- Suspected of causing cancer:
- IARC-2B: Possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals.
- The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance.

### Reproductive toxicity:

- The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.

### Specific target organ system toxicity - repeated exposure:

- No effects known.

### Specific target organ system toxicity - single exposure:

- No effects known.

### Aspiration hazard:

- No effects known.

### Subacute to chronic toxicity:

- No effects known.

### Additional toxicological information:

- To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 12 Ecological information

### Toxicity

No further relevant information available.

### Aquatic toxicity:

No further relevant information available.

### Bioaccumulative potential

No further relevant information available.

### Mobility in soil:

No further relevant information available.

### Additional ecological information:

### General notes:

- Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.
- Avoid transfer into the environment.

### Results of PBT and vPvB assessment:

- PBT: Not applicable.
- vPvB: Not applicable.

### Other adverse effects:

No further relevant information available.
13 Disposal considerations
Waste treatment methods
Recommendation Consult state, local or national regulations to ensure proper disposal.
Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14 Transport information
UN-Number
DOT, ADN, IMDG, IATA: Not applicable

UN proper shipping name
DOT, ADN, IMDG, IATA: Not applicable

Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA: Class: Not applicable

Packing group
DOT, IMDG, IATA: Not applicable

Environmental hazards:
Not applicable.

Special precautions for user:
Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15 Regulatory information
Safety, health and environmental regulations/legislation specific for the substance or mixture
The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

Hazard pictograms
GHS08

Signal word Warning
Hazard statements
H351 Suspected of causing cancer.

Precautionary statements
P281 Use personal protective equipment as required.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P301-P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL).

SARA Section 313 (specific toxic chemical listings)
60-35-5 Acetamide

California Proposition 65

Prop 65 - Chemicals known to cause cancer
60-35-5 Acetamide

Prop 65 - Developmental toxicity Substance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicity, male Substance is not listed.

Information about limitation of use: For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations
Although this chemical may sometimes be used as a food or drug or cosmetic, our products are not approved or suitable for such use or for human consumption.

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/23/2015 / -

Abbreviations and acronyms:
ADCP: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International carriage of Dangerous Goods by Road)
DOT: US Department of Transportation
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
AICHR: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)