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

1.1 Product identifier

Trade name 1-Octadecylamine

Stock number: L15458
CAS Number: 124-30-1
EC number: 204-695-3

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

Identified use: SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Thermo Fisher (Kandel) GmbH
Zeppelinstr. 7b
76185 Karlsruhe / Germany
Tel: +49 (0) 721 84007 280
Fax: +49 (0) 721 84007 300
Email: tech@alfa.com
www.alfa.com

Informing department: Product safety Tel + +049 (0) 7275 988687-0

1.4 Emergency telephone number:

Carechem 24: +44 (0) 1235 239 670 (Multi-language emergency number)
Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

![GHS08 health hazard](image)

STOT RE 2 H373 May cause damage to the liver, the digestive system and the immune system through prolonged or repeated exposure. Route of exposure: Oral.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

![GHS05 corrosion](image)

Eye Dam. 1 H318 Causes serious eye damage.

![GHS09 environment](image)

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

![GHS07](image)

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.

Other hazards that do not result in classification

No information known.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

![GHS05 GHS07 GHS08 GHS09](image)

Signal word Danger

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to the liver, the digestive system and the immune system through prolonged or repeated exposure. Route of exposure: Oral.
H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 Take off contaminated clothing and wash before reuse.
P405 Store locked up.
P601 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS# Designation:
1-Octadecylamine

Identification number(s):
EC number: 204-695-3

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.

(Contd. on page 2)
Trade name: 1-Octadecylamine

After skin contact
Instantly wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed
Causes skin irritation.
Harmful if swallowed.
Causes serious eye damage.
May be fatal if swallowed and enters airways.
The digestive system and the immune system through prolonged or repeated exposure. Route of exposure: Oral.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 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)

5.3 Advice for firefighters
Protective equipment:
Wear self-contained breathing apparatus.
Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation

6.2 Environmental precautions:
Do not allow product to reach sewage system or water bodies.

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

6.4 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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Keep containers tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.

7.2 Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and containers: No special requirements.
Information about storage in one common storage facility:
Do not store together with acids.
Store away from oxidising agents.
Store away from acid chlorides.
Store away from acid anhydrides.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.

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

SECTION 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.

8.1 Control parameters
Components with critical values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: No data

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use breathing protection with high concentrations.
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:
Check protective gloves prior to each use for their proper condition.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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:
Tightly sealed safety glasses.
Face: Caution: damage to the liver, the digestive system and the immune system through prolonged or repeated exposure.
Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General information
Appearance:
Various forms (powder/flake/crystalline/beads, etc.)
Smell:
Amine-like
### SECTION 10: Stability and reactivity

#### 10.1 Reactivity
No information known.

#### 10.2 Chemical stability
Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions
React with strong oxidising agents

#### 10.4 Conditions to avoid
No further relevant information available.

#### 10.5 Incompatible materials:
- Acids
- Oxidising agents
- Acid chlorides
- Acid anhydrides

#### 10.6 Hazardous decomposition products:
- Carbon monoxide and carbon dioxide
- Nitrogen oxides (NOx)

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects
- **Acute toxicity:** Harmful if swallowed.
- **LD/LC50 values that are relevant for classification:**
  - Oral (LD50): 2000 mg/kg (rat)

#### Skin irritation or corrosion:
- Causes skin irritation.

#### Eye irritation or corrosion:
- Causes serious eye damage.

#### Sensitization:
- No sensitizing effect known.

#### Germ cell mutagenicity:
- No effects known.

#### Specific target organ system toxicity - repeated exposure:
- May cause damage to the liver, the digestive system and the immune system through prolonged or repeated exposure. Route of exposure: Oral.

#### Specific target organ system toxicity - single exposure:
- No effects known.

#### Aspiration hazard:
- May be fatal if swallowed and enters airways.

#### Subacute to chronic toxicity:
- The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.

### SECTION 12: Ecological information

#### 12.1 Toxicity
- **Aquatic toxicity:** No further relevant information available.

#### 12.2 Persistence and degradability
- No further relevant information available.

#### 12.3 Bioaccumulative potential
- No further relevant information available.

#### 12.4 Mobility in soil
- No further relevant information available.

#### Ecotoxicological effects:
- **Remark:** Very toxic for fish

#### Additional ecological information:
- **General notes:**
  - Do not allow product to reach ground water, water bodies or sewage system.
  - Water hazard class 2 (Assessment by list): hazardous for water.
  - Danger to drinking water if even small quantities leak into soil.
  - Also poisonous for fish and plankton in water bodies.
  - May cause long lasting harmful effects to aquatic life.
  - Avoid transfer into the environment.
  - Very toxic for aquatic organisms

#### 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

#### 12.6 Other adverse effects
- No further relevant information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods
- **Recommendation:** Hand over to disposers of hazardous waste.
- Must be specially treated under adherence to official regulations.
- Consult state, local or national regulations for proper disposal.
SECTION 14: Transport information

14.2 UN proper shipping name
ADR, IMDG, IATA
UN3077

14.3 Transport hazard class(es)
ADR
Class
9 (M7) Miscellaneous dangerous substances and articles.
Label
9
IMDG
Class
9 Miscellaneous dangerous substances and articles.
Label
9
IATA
Class
9 Miscellaneous dangerous substances and articles.
Label
9

14.5 Environmental hazards:
Special marking (ADR): Symbol (fish and tree)
Special marking (IMDG): Symbol (fish and tree)

14.6 Special precautions for user
Warning: Miscellaneous dangerous substances and articles.
Kemler Number: 90
EMS Number: F-A,S-F

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Australian Inventory of Chemical Substances Substances is listed.
Standard for the Uniform Scheduling of Medicines and Poisons Substance is not listed.
National regulations
Information about limitation of use: Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.
Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water.
Other regulations, limitations and prohibitive regulations
ELINCS (European List of Notified Chemical Substances) Substance is not listed.
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.

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

SECTION 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

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
ACGIH: 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)
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/irritation, Hazard Category 1
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1