

## 1 Identification

### Product identifier

**Trade name:** Standardlösung Ammoniumnitrat

**Synonym:** Standard solution ammonium nitrate

**Article number:** CAY40-1A1A

**Application of the substance / the mixture** Laboratory chemicals

### Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

Endress+Hauser Conducta Inc.  
4123 E. La Palma Ave., Suite 200  
Anaheim  
CA 92807-1813  
USA

#### Information department:

Phone: +49 (0)7156 209-10117  
E-Mail: MSDS.PCC@endress.com

**Emergency telephone number:** 001 18000 222 1222

## \* 2 Hazard(s) identification

### Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

### Label elements

**GHS label elements** Void

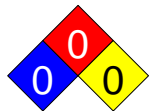
**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

**Classification system:**

**NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

|            |   |                |
|------------|---|----------------|
| HEALTH     | 0 | Health = 0     |
| FIRE       | 0 | Fire = 0       |
| REACTIVITY | 0 | Reactivity = 0 |

### Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

### Results of PBT and vPvB assessment

**PBT:** Not applicable.


**vPvB:** Not applicable.

## 3 Composition/information on ingredients

### Chemical characterization: Mixtures

**Description:** Mixture of the substances listed below with nonhazardous additions.

#### Dangerous components:

|                |                  |                                                                                                               |       |
|----------------|------------------|---------------------------------------------------------------------------------------------------------------|-------|
| CAS: 6484-52-2 | ammonium nitrate |  Oxidizing Solids 1, H271 | 5-10% |
|----------------|------------------|---------------------------------------------------------------------------------------------------------------|-------|

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 2)

Trade name: Standardlösung Ammoniumnitrat

(Contd. of page 1)

## 4 First-aid measures

### Description of first aid measures

**General information:** No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** Rinse out mouth and then drink plenty of water.

### 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:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** no further information

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters** No further relevant information available.

**Protective equipment:** No special measures required.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

### Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### Protective Action Criteria for Chemicals

|                |                  |                       |
|----------------|------------------|-----------------------|
| <b>PAC-1:</b>  |                  |                       |
| CAS: 6484-52-2 | ammonium nitrate | 6.7 mg/m <sup>3</sup> |
| <b>PAC-2:</b>  |                  |                       |
| CAS: 6484-52-2 | ammonium nitrate | 73 mg/m <sup>3</sup>  |
| <b>PAC-3:</b>  |                  |                       |
| CAS: 6484-52-2 | ammonium nitrate | 440 mg/m <sup>3</sup> |

## 7 Handling and storage

**Precautions for safe handling** No special measures required.

**Information about protection against explosions and fires:** No special measures required.

### Storage:

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

**Information about storage in one common storage facility:** Not required.

(Contd. on page 3)

---

**Trade name: Standardlösung Ammoniumnitrat**

---

(Contd. of page 2)

**Further information about storage conditions:** *None.***Storage class:** 12**Specific end use(s)** *No further relevant information available.*

---

## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** *No further data; see item 7.***Control parameters****Components with limit 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:** *The lists that were valid during the creation were used as basis.***Exposure controls****Personal protective equipment:****General protective and hygienic measures:***The usual precautionary measures for handling chemicals should be followed.***Breathing equipment:** *Not required.***Protection of hands:***Protective gloves and protective skin cream**No chemical-protective gloves required.***Material of gloves***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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.***Penetration time of glove material***The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.***Eye protection:** *Not required.***Body protection:** *Protective work clothing*

---

## 9 Physical and chemical properties

**Information on basic physical and chemical properties****General Information****Appearance:****Form:** *Fluid***Color:** *Colorless***Odor:** *Odorless***Odor threshold:** *Not determined.***pH-value:** *Not determined.***Change in condition****Melting point/Melting range:** *Undetermined.***Boiling point/Boiling range:** *100 °C (212 °F)***Flash point:** *Not applicable.***Flammability (solid, gaseous):** *Not applicable.***Decomposition temperature:** *Not determined.***Auto igniting:** *Product is not selfigniting.*

(Contd. on page 4)

## Trade name: Standardlösung Ammoniumnitrat

(Contd. of page 3)

|                                                 |                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------|
| <b>Danger of explosion:</b>                     | <i>Product does not present an explosion hazard.<br/>Not determined.</i> |
| <b>Explosion limits:</b>                        |                                                                          |
| <b>Lower:</b>                                   | <i>Not determined.</i>                                                   |
| <b>Upper:</b>                                   | <i>Not determined.</i>                                                   |
| <b>Vapor pressure at 20 °C (68 °F):</b>         | <i>23 hPa (17.3 mm Hg)</i>                                               |
| <b>Density at 20 °C (68 °F):</b>                | <i>1.039 g/cm<sup>3</sup> (8.67 lbs/gal)</i>                             |
| <b>Relative density</b>                         | <i>Not determined.</i>                                                   |
| <b>Vapor density</b>                            | <i>Not determined.</i>                                                   |
| <b>Evaporation rate</b>                         | <i>Not determined.</i>                                                   |
| <b>Solubility in / Miscibility with</b>         |                                                                          |
| <b>Water:</b>                                   | <i>Fully miscible.</i>                                                   |
| <b>Partition coefficient (n-octanol/water):</b> | <i>Not determined.</i>                                                   |
| <b>Viscosity:</b>                               |                                                                          |
| <b>Dynamic:</b>                                 | <i>Not determined.</i>                                                   |
| <b>Kinematic:</b>                               | <i>Not determined.</i>                                                   |
| <b>Solvent content:</b>                         |                                                                          |
| <b>Water:</b>                                   | <i>&gt;90.0 %</i>                                                        |
| <b>Solids content:</b>                          | <i>0.0 %</i>                                                             |
| <b>Other information</b>                        | <i>No further relevant information available.</i>                        |

## 10 Stability and reactivity

**Reactivity** *No further relevant information available.*

**Chemical stability**

**Thermal decomposition / conditions to be avoided:**  
*No decomposition if used according to specifications.*

**Possibility of hazardous reactions** *No dangerous reactions known.*

**Conditions to avoid** *No further relevant information available.*

**Incompatible materials:** *No further relevant information available.*

**Hazardous decomposition products:** *No dangerous decomposition products known.*

## 11 Toxicological information

## Information on toxicological effects

## Acute toxicity:

LD/LC50 values that are relevant for classification:

CAS: 6484-52-2 ammonium nitrate

Oral | LD50 | 2,217 mg/kg (rat)

## Primary irritant effect:

**on the skin:** *No irritant effect.***on the eye:** *No irritating effect.***Sensitization:** *No sensitizing effects known.*

## Additional toxicological information:

*The product is not subject to classification according to internally approved calculation methods for preparations:**When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.*

(Contd. on page 5)

— USA —

Trade name: Standardlösung Ammoniumnitrat

(Contd. of page 4)

## 12 Ecological information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

### Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

### Additional ecological information:

#### General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 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:** Smaller quantities can be disposed of with household waste.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

### UN-Number

DOT, ADN, IMDG, IATA Void

### UN proper shipping name

DOT, ADN, IMDG, IATA Void

### Transport hazard class(es)

DOT, ADN, IMDG, IATA

Class Void

### Packing group

DOT, IMDG, IATA Void

### Environmental hazards:

**Marine pollutant:** No

**Special precautions for user** Not applicable.

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

**Transport/Additional information:** Not dangerous according to the above specifications.

**UN "Model Regulation":** Void

## \*15 Regulatory information

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

### Section 355 (extremely hazardous substances):

None of the ingredient is listed.

### Section 313 (Specific toxic chemical listings):

CAS: 6484-52-2 | ammonium nitrate

(Contd. on page 6)

**Trade name: Standardlösung Ammoniumnitrat**

(Contd. of page 5)

**TSCA (Toxic Substances Control Act):***All components have the value ACTIVE.***Hazardous Air Pollutants***None of the ingredients is listed.***Proposition 65****Chemicals known to cause cancer:***None of the ingredients is listed.***Chemicals known to cause reproductive toxicity for females:***None of the ingredients is listed.***Chemicals known to cause reproductive toxicity for males:***None of the ingredients is listed.***Chemicals known to cause developmental toxicity:***None of the ingredients is listed.***Carcinogenicity categories****EPA (Environmental Protection Agency)***None of the ingredients is listed.***TLV (Threshold Limit Value)***None of the ingredients is listed.***MAK (German Maximum Workplace Concentration)***None of the ingredients is listed.***NIOSH-Ca (National Institute for Occupational Safety and Health)***None of the ingredients is listed.***GHS label elements** *Void***Hazard pictograms** *Void***Signal word** *Void***Hazard statements** *Void***National regulations:****Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.***Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.***16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**Department issuing SDS:** *PCC - TWR***Contact:** *MSDS.pcc@endress.com***Date of preparation / last revision** *03/31/2022 / 2***Abbreviations and acronyms:***ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**DOT: US Department of Transportation**IATA: International Air Transport Association**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**NIOSH: National Institute for Occupational Safety**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit*

(Contd. on page 7)

— USA —

# Safety Data Sheet

acc. to OSHA HCS

Page 7/7

Printing date 03/31/2022

Version 3

Reviewed on 03/31/2022

---

**Trade name: Standardlösung Ammoniumnitrat**

---

*REL: Recommended Exposure Limit*

*Oxidizing Solids 1: Oxidizing solids – Category 1*

**\* Data compared to the previous version altered.**

---

(Contd. of page 6)

— USA —