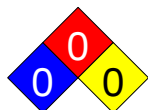


1 Identification**Product identifier****Trade name:** Standardlösung Ammoniumnitrat**Synonym:** *Standard solution ammonium nitrate***Article number:** CAY40-1A1A**Application of the substance / the mixture** *Laboratory chemicals***Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

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

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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:

CO₂, 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

PAC-1:

CAS: 6484-52-2	ammonium nitrate	6.7 mg/m ³
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PAC-2:

CAS: 6484-52-2	ammonium nitrate	73 mg/m ³
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PAC-3:

CAS: 6484-52-2	ammonium nitrate	440 mg/m ³
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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.

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Trade name: Standardlösung Ammoniumnitrat

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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 section 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:** *Not applicable.***Decomposition temperature:** *Not determined.***Ignition temperature:** *Product is not selfigniting.*

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Danger of explosion: *Product does not present an explosion hazard.
Not determined.*

Explosion limits:

Lower: *Not determined.*

Upper: *Not determined.*

Vapor pressure at 20 °C (68 °F): *23 hPa (17.3 mm Hg)*

Density at 20 °C (68 °F): *1.039 g/cm³ (8.67 lbs/gal)*

Relative density *Not determined.*

Vapor density *Not determined.*

Evaporation rate *Not determined.*

Solubility in / Miscibility with

Water: *Fully miscible.*

Partition coefficient (n-octanol/water): *Not determined.*

Viscosity:

Dynamic: *Not determined.*

Kinematic: *Not determined.*

Solvent content:

Water: *>90.0 %*

Solids content: *0.0 %*

Other information *No further relevant information available.*

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.

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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

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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** *10/21/2024 / 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*

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REL: Recommended Exposure Limit

Oxidizing Solids 1: Oxidizing solids – Category 1

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

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