

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 03.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.010010.00000
Product Name Ammonia Solution %25
Cas no 1336-21-6

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

1.2.1. Relevant identified uses

Pharmaceutical production. Cosmetic raw material. Use as laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Corrosion, Subcategory 1B
Serious eye damage, Category 1
Specific Target Organ Toxicity – Single exposure, Category 3, Respiratory system
Short term (acute) aquatic hazard, Category 1 , H400
Long (chronic) aquatic hazard, Category 2

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

Precautionary Statements (SEA)



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

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Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT try to vomit.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

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

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	215-647-6
Molar mass	17.03 g/mol
Cas No	1336-21-6
Concentration	(>= 20 - < 30 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Move to fresh air. Call a doctor.
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
<i>Following ingestion</i>	Please give up to two glasses of water. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx). It is not flammable. The ammonia solution itself is not flammable, but can form a flammable ammonia/air mixture through degassing. All-round fire can release dangerous vapours. Fire may cause evolution of: nitrogen oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



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Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

Advices on general occupational hygiene

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Metal packaging should not be used.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Safety glasses

Hand protection

Hand protection

Full contact:

Material of gloves: Viton (R)

Glove thickness: 0,70 mm

Puncture time: 480 minutes

Contact with splash:

Glove material: Nitrile rubber

Glove thickness: 0,40 mm

Puncture time: 240 minutes


The protective gloves to be used comply with the specifications of EC directive 89/686 / EEC and the resultant standard EN374.

Other skin protection

Protective clothing.



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Respiratory protection

Required when vapors / aerosols are formed.
Recommended Filter type: Filter K for NH³ (according to DIN 3181)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Pain
Odour threshold	0,02 - 70,7 ppm
pH value	Strong alkali
Melting point/freezing point	-57,5 °C
Freezing point	No information.
Initial boiling point and boiling range	38 °C
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	15,4 %(V)
Upper/lower flammability or explosive limits	33,6 %(V)
Vapour pressure	483 hPa 20 °C
Vapour density	No information.
Density	0,90 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: -1,38 (anhydrous substance).
Auto-ignition temperature	No information.
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

10.3 Possibility of hazardous reactions

Oxidizing agents, mercury, oxygen, silver compounds, nitrogen trichloride, hydrogen peroxide, silver, antimony hydride, halogens, acids, calcium, chlorine, chlorides, gold salts, perchlorates, sodium hypochlorite, mercury compounds, halogen oxides, heavy metals, heavy metal salts, acid chlorides, acid anhydrides and risk of explosion and/or formation of toxic gases.

There is a risk of explosion or formation of flammable gases or vapors with boranes, boron, phosphorus oxides, nitric acid, silicon compounds, chromium (VI) oxide, chromyl chloride.

They give exothermic reactions with acetaldehyde, acrolein, barium, boron compounds, bromine, halogen-halogen compounds, hydrogen bromide, silane, hydrogen chloride gas, halogen compounds, dimethylsulfate, nitrogen oxides, fluorine, hydrogen fluoride, chlorates, carbon dioxide.

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

Aluminium. Lead oxide. Zinc alloys. Copper alloys. Various metals.

10.6 Hazardous decomposition products

No known hazardous decomposition products.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Symptoms: mucosal irritations, cough, shortness of breath, bronchitis.
Possible damages: damage to respiratory tract.

Skin corrosion/irritation

Skin - Rabbit

Result: Severe irritations
(29% solution)
(RTECS)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Severe irritations
(29% solution)
(RTECS)

Specific Target Organ Toxicity – Single exposure

The mixture may cause respiratory irritation. The respiratory system.

11.2 Additional information

Cough, shortness of breath, bronchitis, gastric pain, vomit containing blood, nausea, shock, unconsciousness.
Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

flow-through test LC50 - Pimephales promelas (Carp calf) - 0.068 mg/l - 96 h
(ECHA)

Toxicity to daphnia and other aquatic invertebrates

static test LC50 - Daphnia magna (Water flea) - 101 mg/l - 48 h
(ECHA)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Biological effects:

Harmful effect due to pH change.

Forms toxic and corrosive mixtures even when diluted.

Disposal into the environment should be prevented.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR

IMDG

IATA

ADN

RID

14.1 UN number



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UN 2672

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14.2 UN proper shipping name

AMMONIA SOLUTION relative density (specific gravity) between 0.880 and 0.957 at 150°C in water, with more than 10% but not more than 35% ammonia

AMMONIA SOLUTION relative density (specific gravity) between 0.880 and 0.957 at 150°C in water, with more than 10% but not more than 35% ammonia

AMMONIA SOLUTION relative density (specific gravity) between 0.880 and 0.957 at 150°C in water, with more than 10% but not more than 35% ammonia

AMMONIA SOLUTION relative density (specific gravity) between 0.880 and 0.957 at 150°C in water, with more than 10% but not more than 35% ammonia

AMMONIA SOLUTION relative density (specific gravity) between 0.880 and 0.957 at 150°C in water, with more than 10% but not more than 35% ammonia

14.3 Transport hazard class(es)

8

8

8

8

8



14.4 Packing group

III

III

III

III

III

14.5 Environmental hazards

YES

YES

YES

YES

YES

No information available.

No information available.

No information available.

No information available.

No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER

Certificate Number and Date:

11.29.03 & 11 Şubat 2020

Communication information:

05069903686



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