

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Date of issue: 02/03/2015 Revision date: 24/02/2025 Supersedes version of: 26/10/2022 Version: 2.3

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

: NH3

1.1. Product identifier

Product form : Substance

Trade name : Ammonia solution 20 % AGR

 Chemical name
 : ammonia%

 EC Index-No.
 : 007-001-01-2

 EC-No.
 : 215-647-6

 CAS-No.
 : 1336-21-6

 REACH registration No
 : 01-2119488876-14

 Product code
 : AMMO-20A

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

Relevant identified uses

Formula

Main use category : Laboratory use

1.3. Details of the supplier of the safety data sheet

labbox labware s.l. Migjorn, 1 P.O. Box Barcelona (SPAIN)

08338 Premia de Dalt, SPAIN FS

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info@labbox.com, www.labbox.com

1.4. Emergency telephone number

Emergency number : +34 937 077 970 (For technical information_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1B H314 Specific target organ toxicity — Single exposure, Category 3, H335

Respiratory tract irritation

Hazardous to the aquatic environment — Chronic Hazard, H412

Category 3

Full text of H and EUH statements: see section 16

Specific concentration limits (%):

(5 ≤ C < 100) STOT SE 3; H335

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

GHS07

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Ammonia solution	CAS-No.: 1336-21-6 EC-No.: 215-647-6 EC Index-No.: 007-001-01-2 REACH-no: 01-2119488876- 14	5 – 25

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial

respiration if necessary. Get immediate medical advice/attention.

First-aid measures after skin contact Gently wash with plenty of soap and water. Take off contaminated clothing and wash it

before reuse. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation. Symptoms/effects after skin contact : Causes severe burns. Symptoms/effects after eye contact : Serious damage to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Sand. Carbon dioxide. Foam.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non combustible.

Hazardous decomposition products in case of fire : Corrosive vapours. fume.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not inhale vapour.

For non-emergency personnel

Emergency procedures : Do not breathe vapours. Do not breathe gas. Only qualified personnel equipped with

suitable protective equipment may intervene.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel

into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. Take up liquid spill into absorbent material. Mechanically

recover the product.

6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing.

Wear personal protective equipment.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Store in a well-ventilated place. Keep container tightly closed.

Incompatible products : Strong acids. Strong bases.
Incompatible materials : Heat sources. Direct sunlight.

Storage area : Store in a cool, well-ventilated place. Store in a dry area. Keep container tight closed. Only

store product in original container. Keep away from food and drink. Avoid the build-up of

electrostatic charge. Keep away from (strong) acids.

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Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

Laboratory chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

Personal protective equipment symbol(s):







Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Туре	Standard
Protective clothing	

Hand protection:

Protective gloves against chemicals (EN 374)

Respiratory protection

Respiratory protection:

Wear appropriate mask

Environmental exposure controls

Other information:

The present safety data sheet is consistent with the specific conditions relied on to justify the registration of the substance in accordance with Article 17 or 18 of the REACH regulation. Do not eat, drink or smoke during use. Wash hands with water as a precaution.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless. Odour : Disagreeable. : Not available Odour threshold : Not available Melting point : Not available Freezing point Boiling point : 38 - 100 °C Flammability : Not available Lower explosion limit : Not available

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Upper explosion limit : Not available Flash point : Not available Auto-ignition temperature Not available Decomposition temperature Not available Not available рΗ Viscosity, kinematic Not available Solubility Not available Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density Not available Relative density : Not available Relative vapour density at 20 °C : 0

Particle characteristics : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Ammonia solution 20 % AGR (1336-21-6)	
LD50 oral rat	350 mg/kg
LC50 inhalation rat (mg/l)	13770 mg/kg

Skin corrosion/irritation : Causes severe skin burns.

Serious eye damage/irritation : Assumed to cause serious eye damage

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

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STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

: Harmful to aquatic life with long lasting effects.

Ammonia solution 20 % AGR (1336-21-6)

LC50 - Fish [1] 15 mg/kg

12.2. Persistence and degradability

Ammonia solution 20 % AGR (1336-21-6)

Persistence and degradability Not biodegradable.

12.3. Bioaccumulative potential

Ammonia solution 20 % AGR (1336-21-6)

Bioaccumulative potential No bioaccumulation.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Must follow special treatment according to local regulation.

European List of Waste (LoW) code : 06 02 03* - ammonium hydroxide

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : UN 2672 UN-No. (IMDG) : UN 2672 UN-No. (IATA) : UN 2672

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UN-No. (ADN) : UN 2672 UN-No. (RID) : UN 2672

14.2. UN proper shipping name

Proper Shipping Name (ADR) AMMONIA SOLUTION Proper Shipping Name (IMDG) AMMONIA SOLUTION Proper Shipping Name (IATA) Ammonia solution Proper Shipping Name (ADN) : AMMONIA SOLUTION Proper Shipping Name (RID) : AMMONIA SOLUTION

Transport document description (ADR) (ADR) : UN 2672 AMMONIA SOLUTION, 8, III, (E)

Transport document description (IMDG) : UN 2672 AMMONIA SOLUTION, 8, III, MARINE POLLUTANT

Transport document description (IATA) : UN 2672 Ammonia solution, 8, III Transport document description (ADN) : UN 2672 AMMONIA SOLUTION, 8, III Transport document description (RID) : UN 2672 AMMONIA SOLUTION, 8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8 8 Danger labels (ADR) :



IMDG

Transport hazard class(es) (IMDG) : 8 Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8 Danger labels (IATA)

8



ADN

: 8 Transport hazard class(es) (ADN) Danger labels (ADN) 8



RID

Transport hazard class(es) (RID) : 8 Danger labels (RID) 8



14.4. Packing group

: 111 Packing group (ADR)

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Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : Yes (IMDG only)

EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C5
Special provisions (ADR) : 543
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions : TP1

(ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80

Orange plates :

80 2672

Tunnel restriction code (ADR) : E EAC code : 2R

Transport by sea

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 IBC special provisions (IMDG) B11 Tank instructions (IMDG) T7 Tank special provisions (IMDG) TP2 Stowage category (IMDG) : A Stowage and handling (IMDG) SW2, SW5 Segregation (IMDG) SGG18, SG35

Properties and observations (IMDG) : Colourless liquid with a pungent odour. Corrosive to copper, nickel, zinc and tin and their

alloys such as brass. Not significantly corrosive to iron and steel. Reacts violently with

acids. Liquid and vapour cause burns to skin, eyes and mucous membranes.

Air transport

: E1 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) : Y841 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 852 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 856 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A64, A803 ERG code (IATA) : 8L

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Inland waterway transport

Classification code (ADN) : C5
Special provisions (ADN) : 543
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C5
Special provisions (RID) : 543
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T7
Portable tank and bulk container special provisions : TP1

(RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3.	Ammonia solution 20 % AGR
3(b)	Ammonia solution 20 % AGR
3(c)	Ammonia solution 20 % AGR

REACH Annex XIV (Authorisation List)

Ammonia solution 20 % AGR is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

Ammonia solution 20 % AGR is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Ammonia solution 20 % AGR is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Ammonia solution 20 % AGR is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

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Dual-Use Regulation (428/2009)

Not listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

National regulations

Germany

VOC ordinance (ChemVOCFarbV)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV). Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen The substance is not listed NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

: The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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