

Page 1/10

Printing date 20.05.2021

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Tel. (+34) 937 489 400

Version number 14.03 (replaces version 14.02)

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

· 1.1 Product identifier

· Trade name: Ammonia 30% (as NH3)

· Article number: 1130

· Application of the substance / the mixture Laboratory chemicals

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: PANREAC QUIMICA S.L.U.

PANREAC QUIMICA S.L.U.
C/Garraf 2

Polígono Pla de la Bruguera E-08211 Castellar del Vallès (Barcelona) Fax. (+34) 937 489 401 e-mail: product.safety@panreac.com

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· Further information obtainable from: email: product.safety@panreac.com

· 1.4 Emergency telephone number:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage. STOT SE 3 H335 May cause respiratory irritation.

Aquatic Acute 1 H400 Very toxic to aquatic life.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

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

· Hazard pictograms







GHS05 GHS07 GHS09

- · Signal word Danger
- · Hazard-determining components of labelling: ammonia
- · Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

(Contd. on page 2)

Page 2/10

(Contd. of page 1)

≥25-≤30%

Printing date 20.05.2021 Revision: 20.05.2021

Version number 14.03 (replaces version 14.02)

Trade name: Ammonia 30% (as NH3)

H400 Very toxic to aquatic life.

• Precautionary statements

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

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 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

· 3.2 Mixtures

· Description: ageous solution

· Dangerous components:

CAS: 1336-21-6 ammonia

EINECS: 215-647-6 Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400;

STOT SE 3, H335

Specific concentration limit: STOT SE 3; H335: C ≥ 5 %

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

Involve doctor immediately.

· After inhalation:

Supply fresh air.

In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Call a doctor immediately.

· After skin contact:

Call a doctor immediately.

Immediately remove any clothing soiled by the product.

Dab with polyethylene glycol 400.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

make victim drink water (maximum of 2 drinking glasses)

Do not attempt to neutralize.

Call a doctor immediately.

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

No further relevant information available.

(Contd. on page 3)

Page 3/10

Printing date 20.05.2021 Revision: 20.05.2021

Version number 14.03 (replaces version 14.02)

Trade name: Ammonia 30% (as NH3)

(Contd. of page 2)

• 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Ammonia

Forms explosive mixtures with air on intense heating.

Non-combustible.

- 5.3 Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

· Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Contain escaping vapours with water.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid substance contact.

Do not inhale steams/aerosols.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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

· 6.3 Methods and material for containment and cleaning up:

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

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Clean up affected area.

· 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 disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

When diluting always pour product into water and not vice versa.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Provide alkali-resistant floor.

Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from metals.

(Contd. on page 4)

Page 4/10

Printing date 20.05.2021 Revision: 20.05.2021

Version number 14.03 (replaces version 14.02)

Trade name: Ammonia 30% (as NH3)

(Contd. of page 3)

Store away from oxidising agents.

Further information about storage conditions:

Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

Store under lock and key and with access restricted to technical experts or their assistants only.

- · Recommended storage temperature: < +20°C
- · Storage class: 8 B
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients 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.

· DNELs				
1336-21-6	ammonia			
Inhalative	Acute - local effects, worker	28 mg/m3		
	Long-term - local effects, worker	14 mg/m3		

· PNECs

1336-21-6 ammonia

	1330-21-0 ammonia	
ŀ	Aquatic compartment - freshwater	0.165 mg/L
1	Aquatic compartment - marine water	0.0165 mg/L
1	Aquatic compartment - water, intermittent releases	0.28 mg/L
1	Aquatic compartment - sediment in freshwater	0.0165 mg/kg
1	Ferrestrial compartment - soil	32.3 mg/kg
5	Sewage treatment plant	8.58 mg/L

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

Filter K

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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.

(Contd. on page 5)

Page 5/10

Printing date 20.05.2021 Revision: 20.05.2021

Version number 14.03 (replaces version 14.02)

Trade name: Ammonia 30% (as NH3)

· Penetration time of glove material

(Contd. of page 4)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Recommended thickness of the material: > 0.7 mm

Value for the permeation: Level ≥ 480 min

· As protection from splashes gloves made of the following materials are suitable:

Recommended thickness of the material: > 0.4 mm

Butvl rubber, BR

Value for the permeation: Level ≥ 240 min

· Eye/face protection



Tightly sealed goggles

· Body protection:

Use protective suit.

Alkaline resistant protective clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Odour:
Odour threshold:
Not determined.

· Melting point/freezing point: -91.5 °C

· Boiling point or initial boiling point and boiling

range Undetermined. • Flammability Not applicable.

· Lower and upper explosion limit

Lower: 15 Vol %Upper: 28 Vol %Flash point: Not applicable.

• Auto-ignition temperature: Product is not selfigniting.

· **Decomposition temperature:** Not determined.

· pH at 20 °C >12

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

Solubility

water: Fully miscible.
Partition coefficient n-octanol/water (log value) Not determined.
Vapour pressure at 20 °C: 483 hPa

Density and/or relative density

Density at 20 °C: ~0.903 g/cm³
 Relative density Not determined.
 Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid

(Contd. on page 6)

Page 6/10

Printing date 20.05.2021 Revision: 20.05.2021

Version number 14.03 (replaces version 14.02)

Trade name: Ammonia 30% (as NH3)

(Contd. of page 5)

Important information on protection of health and environment, and on safety.

Ignition temperature: 651 °C

• Explosive properties: Product does not present an explosion hazard.

Solvent content:

· Water: 63.6-72.7 %
 · VOC (EC) 0.00 %
 · Solids content: 0.0 %

· Change in condition

• Evaporation rate Not determined.

Information with regard to physical hazard classes

· Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void **Pyrophoric solids** Void Self-heating substances and mixtures Void · Substances and mixtures, which emit

Substances and mixtures, which emit flammable gases in contact with water
 Oxidising liquids
 Oxidising solids
 Organic peroxides
 Corrosive to metals
 Desensitised explosives

SECTION 10: Stability and reactivity

· 10.1 Reactivity

Reacts with acids.

Reacts with oxidising agents.

Reacts with alkali (lyes).

- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: Heating.
- 10.3 Possibility of hazardous reactions

Can form explosive vapour-air mixture if stored in large receptacles at temperatures > 35°C.

acids

alkalis

oxidizing agent

Corrosive action on metals.

- · 10.4 Conditions to avoid Reacts with impurities.
- · 10.5 Incompatible materials:

nitrates, nitrites, peroxi compounds, strong oxidizing agents

halogen-halogen compounds

silver

mercury

· 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

GB

Page 7/10

Printing date 20.05.2021 Revision: 20.05.2021

Version number 14.03 (replaces version 14.02)

Trade name: Ammonia 30% (as NH3)

(Contd. of page 6)

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

- After inhalation: Strong caustic effect on skin and mucous membranes.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause respiratory irritation.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability The product is not easily biodegradable.
- · 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Very toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low waterdangerous.

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Also poisonous for fish and plankton in water bodies.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system. (Contd. on page 8)

Page 8/10

Printing date 20.05.2021 Revision: 20.05.2021

Version number 14.03 (replaces version 14.02)

Trade name: Ammonia 30% (as NH3)

(Contd. of page 7)

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN2672
· 14.2 UN proper shipping name · ADR	AMMONIA SOLUTION, ENVIRONMENTALL HAZARDOUS
· IMDG · IATA	AMMONIA SOLUTION, MARINE POLLUTANT AMMONIA SOLUTION
· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	8 (C5) Corrosive substances.
· IMDG	
· Class · Label	8 Corrosive substances.
· IATA	
· Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardor substances: ammonia
· Marine pollutant: · Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code) · EMS Number: · Segregation groups	Warning: Corrosive substances. : 80 F-A,S-B Alkalis
· Stowage Category · Stowage Code	A SW2 Clear of living quarters. SW5 If under deck, stow in a mechanically ventilate space.
	(Contd. on page

Page 9/10

Printing date 20.05.2021 Revision: 20.05.2021

Version number 14.03 (replaces version 14.02)

Trade name: Ammonia 30% (as NH3)

	(Contd. of page 8
Segregation Code	SG35 Stow "separated from" SGG1-acids
 14.7 Maritime transport in bulk according t IMO instruments 	o Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2672 AMMONIA SOLUTION, 8, III ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

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

SECTION 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.

· Relevant phrases

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

(Contd. on page 10)

Page 10/10

(Contd. of page 9)

Printing date 20.05.2021 Revision: 20.05.2021

Version number 14.03 (replaces version 14.02)

Trade name: Ammonia 30% (as NH3)

CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH) PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

* Data compared to the previous version altered.

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