

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : Ammoniaque/Ammoniak/Ammonia
Product code : 0601054F.

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

1.3. Details of the supplier of the safety data sheet

Registered company name : FOREVER PRODUCTS N.V..
Address : 122 rue de la Glacerie.6180.COURCELLES.Belgique.
Telephone : 071/46.85.15. Fax : 071/46.85.69.
Contactpersoon, personne à cont.: Christelle Hulin

1.4. Emergency telephone number : 070 245 245.

Association/Organisation : Antigifcentrum België, centre anti-poison.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin corrosion, Category 1B (Skin Corr. 1B, H314).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05



GHS07

Signal Word :

DANGER

Product identifiers :

007-001-01-2 AMMONIA SOLUTION 12.0%

Hazard statements :

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statements - General :

P102 Keep out of reach of children.

Precautionary statements - Prevention :

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

Precautionary statements - Response :

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

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

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Precautionary statements - Disposal :

P501 To eliminate the contents/container in accordance with the regulation local/regional/national/international.

2.3. Other hazards

No data available.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Composition :

Identification	(EC) 1272/2008	Note	%
INDEX: 007-001-01-2 CAS: 1336-21-6 EC: 215-647-6 REACH: 01-2119982985-14 AMMONIA SOLUTION	GHS05, GHS09 Dgr Skin Corr. 1B, H314 Aquatic Acute 1, H400 M Acute = 1	B	10 <= x % < 25

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
Never give anything by mouth to an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.
To consult a doctor by showing him the label of the product.

In the event of splashes or contact with eyes :

Wash with plenty of clean, fresh water for several minutes.
If irritation persists, consult a Ophthalmology.

In the event of splashes or contact with skin :

Remove soaked clothing and cleanse skin with soap and water.
To consult a doctor by showing him the label of the product.

In the event of swallowing :

Do not give the patient anything orally.
Seek medical attention immediately, showing the label.
Rinse mouth with water.

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

No data available.

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

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Use extinguishing measures appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

An incomplete combustion can cause the formation of toxic products of pyrolysis.

5.3. Advice for firefighters

Due to the toxicity of gases evolved during thermal decomposition products, are to be equipped with self-contained breathing apparatus.
Cool containers / holding tank with water spray.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.
Report spills to appropriate authorities in accordance with the regulations.

6.3. Methods and material for containment and cleaning up

Collect liquid with absorbent material sand, diatomite, binders, universal binders, sawdust, ...

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the substance is handled.

7.1. Precautions for safe handling

Not to breathe the vapors.

Recommended equipment and procedures :

For personal protection, see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Ground of storage resistant to alkalis.

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

According to our supplier:

VME (substance, long run): 20 ppm/14 mg/m³

VME (substance, short term): 50 ppm/36 mg/m³

8.2. Exposure controls

- Eye / face protection

To carry safety goggles resistant to the chemicals.

- Hand protection

Type of gloves recommended :

- Butyl Rubber (Isobutylene-isoprene copolymer)

- fluorinated rubber

- Body protection

Wear suitable protective clothing.

- Respiratory protection

In case of brief exposure, use a filter respirator use, in case of prolonged exposure, use a breathing apparatus independent of the ambient air.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Fluid liquid.
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Important health, safety and environmental information

	Strongly basic.
pH :	Not stated.
pH (aqueous solution) :	env.12
Boiling point/boiling range :	37 °C.
Flash point interval :	Not relevant.
Explosive properties, lower explosivity limit (%) :	15
Explosive properties, upper explosivity limit (%) :	28
Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).
Density :	0.91 +/- 0.01
Water solubility :	Soluble.
Melting point/melting range :	0 °C.
Self-ignition temperature :	630 °C.
Decomposition point/decomposition range :	Not specified.
Point/interval of fusion:	< 0°C

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

See the sections below.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

Exothermic reactions with strong acids.

Corrosive reaction in contact with metals.

10.4. Conditions to avoid

Avoid :

- heat

10.5. Incompatible materials

Keep away from :

- acids
- aluminium
- metals
- zinc

10.6. Hazardous decomposition products

No data available.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Substances

No toxicological data available for the substances.

Serious damage to eyes/eye irritation :

Irritating for the eyes.

Respiratory or skin sensitisation :

Not classified sensitizing.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

CL50 (substance, oncorhynchus mykiss, 96h) = 0.53 mg/l

CE50 (substance, daphnia magna, 48h) = 24 mg/l

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

No possible bio-accumulation.

12.4. Mobility in soil

Mobile product in water.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Harmful effects on the watery organizations by displacement of the value of the pH.

German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

14.1. UN number

2672

14.2. UN proper shipping name

UN2672=AMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia

14.3. Transport hazard class(es)

- Classification :



8

14.4. Packing group

III

14.5. Environmental hazards

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14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C5	III	8	80	5 L	543	E1	3	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	8	-	III	5 L	F-A,S-B	-	E1			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	8	-	III	852	5 L	856	60 L	A64 A803	E1	
	8	-	III	Y841	1 L	-	-	A64 A803	E1	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Packaging to be fitted with child-resistant fastenings (see EC Regulation No. 1272/2008, Annex II, Part 3).

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

This sheet complements the technical instructions for use, but does not replace them. The information it contains are based on our knowledge of the product concerned on the date indicated. They are given in good faith. The attention of users is also drawn to the possible risks incurred when

a product is utilisé for purposes other than those for which it is designed.

It does in no way the user from knowing and applying all texts governing his activity. It will take under its sole responsibility the precautions related to the use he makes of the product.

The regulatory requirements referred merely to assist the recipient to fulfill its obligations when using the product dangerous. This list should not be considered exhaustive and does not ensure the recipient qu'éventuellement other obligations incumbent on him not because of texts other than those cited for the holding and handling of the product for which it is solely responsible .

Wording of the phrases mentioned in section 3 :

H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).