	<h1>Material Safety Data Sheet</h1> <p>Conforms to Reg. (EU) 830/2015</p>					Board Code S-P4/2-2
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1. Identification of the substance / preparation and of the company / undertaking

1.1 Product identifier:

Trade name: **AMMONIACA Classica LINDOR**
 Chemical name: Ammonia
 CAS: 1336-21-6 - EC No: 215-647-6 - Index No: 007-001-01-2 – REACH 01-2119488876-14-XXXX

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

Sector of uses: Hard surfaces cleaner
 Private households (= general public = consumers)[SU21],
 Public domain (administration, education, entertainment, services, craftsmen)[SU22]
 Uses advised against: Do not use for purposes other than those listed

1.3 Details of the supplier of the safety data sheet:

Produced by: NEW FADOR S.r.l.
 Via M. Calderara 31 - 25018 Montichiari (BS) - Italy
 Tel. +39 030 961243 - Fax +39 030 962500
www.newfador.it - info@newfador.it

1.4 Emergency telephone number:

Tel. + 39 0765 455945 (From 8.30 to 17.30 – Monday / Friday)
 At paragraph 16 of this tab indicates the contact details of poison control centers in Italy active 24 hours on 24.

2. Hazard identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

Pictograms:
 GHS05

Hazard Class and Category Code(s):
 Skin Corr. 1A

Hazard statement Code(s):
 H314 - Causes severe skin burns and eye damage.

Corrosive product: Causes severe skin burns and eye damage.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
 GHS05 - Danger

Hazard statement Code(s):
 H314 - Causes severe skin burns and eye damage.

Supplemental Hazard statement Code(s):
 Not applicable.

Precautionary statements:

General

P101 - If medical advice is needed, have product container or label at hand.
 P102 - Keep out of reach of children.

Prevention

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

Response


P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ 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 or doctor/physician.

Storage

P405: Store locked up.

Disposal



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P501 - Dispose of contents/container in accordance with applicable regulations.

Contains: Ammonia, solution 1,2% - Index 007-001-01-2

Contains (Reg.EC 648/2004): < 5% Ammonia.

2.3 Other hazards:

The substance / mixture does NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards.

Packaging to be fitted with a tactile warning.

Packaging to be fitted with child-resistant fastenings.

3. Composition / information on ingredients

3.1 Substances:

Refer to paragraph 16 for full text of hazard statements.

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Ammonia 1,2 %	>1 <= 5%	Skin Corr. 1B, H314; Aquatic Acute 1, H400	007-001-01-2	1336-21-6	215-647-6	01-2119488876-14-XXXX

3.2 Mixtures:

Irrelevant.

4. First aid measure



4.1 Description on first aid measure:

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area.

If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Immediately take off contaminated clothing.

In case of contact with skin, wash immediately with water.

Seek immediate medical attention.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Drink water with egg white; do not give bicarbonate.

Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

Corrosive product: Causes severe skin burns and eye damage.

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

If medical advice is needed, have product container or label at hand.

Immediately call a POISON CENTER.

5. Fire-fighting measure




5.1 Extinguishing media:

Recommended extinguishing means:

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool down surfaces of the containers exposed to fire.

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5.2 Special hazards arising from the substance or mixture:

No data available.

5.3 Advice for fire-fighters:

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use self respirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray.

6. Measures in case of accidental release

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke.

Wear mask, gloves and protective clothing.

For emergency responders:

Wear mask, gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2 Environmental precautions:

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations.

6.3 Methods and materials for containment and cleaning up:

To contain:

Rapidly recover the product, wear a mask and protective clothing.

Recover the product for reuse if possible, or for elimination. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

For cleaning:

After wiping up, wash with water the area and materials involved.

Other information:

None in particular.

6.4 Reference to other sections:

Refer to paragraphs 8 and 13 for further information.

7. Handling and storage

7.1 Precaution for safe handling:

Avoid contact and inhalation of vapors

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

At work do not eat or drink.

See also paragraph 8 below.

7.2 Conditions for safe storage, including any incompatibilities:

Keep in original container tightly closed. Do not store in open or unlabeled containers.

Keep the containers in upright position and secure avoiding the possibility of falls or collisions.

Store in a cool place, away from any sources of heat and direct exposure of sunlight.

7.3 Specific end uses:

Private households (= general public = consumers):

Store in cool and dry places.


Public domain (administration, education, entertainment, services, craftsmen):

Handle with care.

Store in ventilated place away from heat sources.

Keep the container tightly closed.

8. Exposure controls / personal protection

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8.1 Control parameters:

Related to contained substances:

ammonia 1,2%:

DNEL, systemic effects_Short term_Dermal_Workers

Value: 6.8 mg / kg

DNEL, systemic effects_Short term_Inhalation Workers

Value: 36 mg / m³

DNEL, Systemic effects_Long term_Inhalation_Workers

Value: 14 mg / m³

PNEC, Freshwater

Value: 0.0011 mg / l

PNEC Marine water

Value: 0.011 mg / l

8.2 Exposure controls:

Appropriate engineering controls:

Private households (= general public = consumers):

Open with caution. Close the container immediately after its use.

Adopt the appropriate protective measures.

Public domain (administration, education, entertainment, services, craftsmen):

Open with caution. Close the container immediately after its use.

Adopt the appropriate protective measures.

Individual protection measures:

(a) Eye / face protection

When handling the pure product wear safety goggles (splash goggles) (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use protective gloves resistant to chemicals (EN 374-1 / EN374-2 / EN374-3).

(ii) Other

When handling the pure product wear clothing to protect the skin (EN 14605)

(c) Respiratory protection

Use adequate respiratory protection (EN 141).

(d) Thermal hazards

No hazard to report


Environmental exposure controls:

Don't download the wash flow into surface water or sanitary sewer system.

9. Physical and chemical properties

9.1. Information on basic physical and chemical

Physical and chemical properties	Value	Method of determination
Appearance	colorless liquid	
Odour	characteristic	
Odour threshold	not determined	
pH	> 11.5	
Melting point / freezing point	This property is not relevant to the safety and product classification	
Initial boiling point and boiling range	not determined	
Flash point	not determined	ASTM D92
Evaporation rate	This property is not relevant to the safety and product classification	
Flammability (solid, gas)	not determined	
Upper / lower flammability or explosive limits	not determined	
Vapour pressure	This property is not relevant to the safety and product classification	
Vapour density	0,6-1,2	

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Relative density	not determined
Solubility	in water
Water solubility	miscible
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	This property is not relevant to the safety and product classification
Decomposition temperature	not determined
Viscosity	not determined
Explosive properties	Not classified as explosive , does not contain explosives according to Reg . CLP Art . (14 (2))
Oxidizing properties	The product is not an oxidizing substance

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity:

No reactivity hazards under normal conditions of use.

Relating to substances:

Ammonia. 1,2%

Avoid contact with acid solutions to avoid overheating of the solution.

10.2 Chemical stability:

Stable in normal conditions of temperature and pressure under the storage and manipulation.

10.3 Possibility of hazardous reactions:

Ammonia solutions can react violently in contact with acids producing heat and with strong oxidizing agents, chlorine, bromine, iodine, fluorine, acrolein, hypochlorous acid, acetaldehyde, potassium ferrocyanide, mercury and silver, etc.

10.4 Condition to avoid:

None to report.

10.5 Incompatible materials:

Strong acids, zinc, aluminium, copper and their alloys.

10.6 Hazardous decomposition products:

When heated, the solutions increase the development of ammonia vapours.

11. Toxicological information

11.1 Information on toxicological effects:


- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation Corrosive product: causes severe skin burns and eye damage.
- (c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

ammonia 1,2%:

Substance Information on toxicological effects: N.A.

Mixture Information on toxicological effects: Ammonia.

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Acute toxicity: Due to the corrosive effect of the substance.

Corrosion / irritation: Acute Skin Corrosion.

Injury / irritation: Serious eye damage in case of splashes.

respiratory or skin sensitization: May cause dermatitis.

Germ cell mutagenicity: Not related evidence.

Carcinogenicity: No reported evidence.

Reproductive toxicity: No reported evidence.

specific target organ toxicity (STOT)

single exposure: H335: May cause respiratory irritation.

specific target organ toxicity (STOT)

Repeated exposure: No reported evidence.

Danger Aspiration respiratory disorders according to the concentration of the vapors.

the hazard classification criteria: Classification of law based on the European Regulation 1272/2008 Alleg. VI

Toxicological information.

Ingestion: LD50 rat 350mg / kg (aqueous solution at 25% of NH3)

Inhalation man LCLo 30,000 ppm NH3 / 5 minutes

Inhalation: LCLo rat 2,000 ppm NH3 / 4 hours

Inhalation cat LCLo 7,000 ppm NH3 / 1 hour

Summary of studies used: See below.

Classification criteria not met: N.A.

Information on likely routes of exposure:

Eye Contact: Vapors emitted from ammonia solutions are highly irritating to the eyes. liquid splashes can cause permanent eye damage.

Skin contact: Liquid splashes can cause burns and blisters if contact is prolonged. Ammonia vapors are irritating to the skin.

Inhalation: A moderate exposure to ammonia vapors may cause headache, salivation, burning in the trachea, sweating, nausea, vomiting, pain below the breastbone. Severe exposure can result in respiratory tract irritation, glottis edema, bronchospasm, pulmonary edema and respiratory arrest; They can follow bronchitis or pneumonia.

Repeated or prolonged exposure to low concentrations of vapors may cause chronic bronchitis.

Ingestion: The ingestion of an ammonia solution with pH > 11.5 gives rise immediately to mouth sores, behind the sternum, stomach, vomiting of blood. The complications that can arise are: digestive bleeding, perforation of the esophagus and stomach, metabolic acidosis, risk of digestive stenosis.

Symptoms related to the physical, chemical and toxicological: The solution, having a low vapor pressure, tends naturally to develop ammonia vapors which, if inhaled may cause low-concentration dizziness, feelings of nausea, air hunger, burning sensations and high concentration pulmonary edema, shock that can evolve into a coma and lead to death of the subject. Solutions are corrosive and therefore irritating to mucous membranes, eyes and skin.

Immediate, delayed and chronic effects from short and long term exposure: acute respiratory disorders, irritation and / or skin burns.

Sensitization: No reported evidence.

Cancerogenesis not related evidence.

Mutagenesis: No reported evidence.

Reproductive toxicity: No reported evidence.

Interactive effects: N.A.

The absence of specific data: N.A.

Other information: N.A.

Oral LD50 (rat) (mg / kg body weight) = 350

Inhalation LC50 (rat) vapor / dust / aerosol / smoke (mg / l / 4h) or gas (ppmv / 4h) = 1417

12. Ecological Information

12.1 Toxicity:

Ammonia 1,2%

Eco-toxicity (LC50):

0.1 ppm 24h [Rainbow trout].

8.2 mg / l 96 h [Fathead minnow].

0.1 ppm 48 h [Bluegill].

L (E) C50 (mg / l) = 0.7

Use according to good working practices to avoid pollution into the environment.

12.2 Persistence and degradability:

In the soil, ammonia is quickly oxidized by microorganisms to nitrate ion. In surface waters, it can be nitrified by micro-organisms or be absorbed on sediments or on colloids. At a concentration of 2 mg NH3 / l ammonia alters the process of self purification of water courses. In the atmosphere, it can be degraded by photolysis or neutralized by acid pollutants air.


12.3 Bioaccumulative potential:

Low potential for accumulation.

12.4 Mobility in soil:

Soluble in water, very mobile in soils.

12.5 Results of PBT and vPvB assessment:

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The substance / mixture does NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6 Other adverse effects:

No adverse effects are observed.

Regulation (EC) No. 2006/907 - 2004/648

The surfactant (s) contain (s) in this formulation comply (ies) with the criteria set out in Regulation (EC) biodegradability/648/2004 on detergents. All supporting data shall be kept at the disposal of the competent authorities of the Member States and will be provided, at their explicit request or at the request of a manufacturer of the formulation, the above authority.

13. Disposal considerations

13.1 Methods of waste treatment:

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies. Recover if possible. Operate according to local or national regulations.

14. Transport information



14.1 UN number:

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2 UN proper shipping name:

None.

14.3 Classes of transport hazard:

None.

14.4 Packing group:

None.

14.5 Environmental hazards:

None.

14.6 Special precautions for user:

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

It is not intended to carry bulk.

15. Regulatory information


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

Regulation 648/2004/EC (detergents), Legislative Decree no. 3/2/1997 no. 52 (Classification, packaging and labeling of dangerous substances), Legislative Decree 14.3.2003 n. 65 (Classification, packaging and labeling of dangerous substances), Leg. 02/02/2002 n. 25 (Risks related to chemical agents at work), D.M. Working 26/02/2004 (Occupational exposure limit); DM 04/03/2007 (Implementation of Directive no. 2006/8/EC), Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n.790/2009.D.Lgs. September 21, 2005 n. 238 (Seveso Ter).

15.2 Chemical safety assessment:

No chemical safety assessment was carried out by the supplier.

16. Other information

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Modified points from the previous revision: 2.1 Classification of the substance or mixture 2.2. Label elements, 2.3. Other hazards, 4.2. Most important symptoms and effects, both acute and delayed, 8.1. Control parameters, 11.1. Information on toxicological effects 15.1. laws and regulations on health, safety and specific for the substance or mixture.

Description of the hazard statements exposed to point 3

H314 = Causes severe skin burns and eye damage.

H400 = Very toxic to aquatic life.

Main normative references:

Regulation 2008/1272/EC

Regulation 2015/830/EC

Link ECHA (source of information on chemical substances produced or imported in Europe)

<http://echa.europa.eu/it/information-on-chemicals;jsessionid=63968E9F85F91C26F330FF884618CFFF.live1>

MSDS provided by the customer and on the same raw material

In case of need, there are the telephone numbers are active 24 hours 24 some poison control centers:

Responsabile	Ospedale	Città	Indirizzo	CAP	Telefono
Marco Marano	CAV "Osp. Pediatrico Bambino Gesù"	Roma	Piazza Sant'Onofrio, 4	00165	06 68593726
Anna Lepore	Az. Osp. Univ. Foggia	Foggia	V.le Luigi Pinto, 1	71122	0881-732326
Gennaro Savoia	Az. Osp. "A. Cardarelli"	Napoli	Via A. Cardarelli, 9	80131	081-7472870
M. Caterina Grassi	CAV Policlinico "Umberto I"	Roma	V.le del Policlinico, 155	00161	06-49978000
Alessandro Barelli	CAV Policlinico "A. Gemelli"	Roma	Largo Agostino Gemelli, 8	00168	06-3054343
Primo Botti	Az. Osp. "Careggi" U.O. Tossicologia Medica	Firenze	Largo Brambilla, 3	50134	055-7947819
Carlo Locatelli	CAV Centro Nazionale di Informazione Tossicologica	Pavia	Via Salvatore Maugeri, 10	27100	0382-24444
Franca Davanzo	Osp. Niguarda Ca' Granda	Milano	Piazza Ospedale Maggiore, 3	20162	02-66101029
M. Luisa Farina	Azienda Ospedaliera Papa Giovanni XXII	Bergamo	Piazza OMS, 1	24127	800883300

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