

**SAFETY DATA SHEET****Salmi**

According to Regulation (EC) No 1907/2006 amended by Regulation (EU) 2020/878

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

Date issued 15.10.2009

Revision date 15.11.2023

**1.1. Product identifier**

Product name Salmi

Chemical name Ammonia solution 9%

Article no. 2704, L-2704, L-4126, L2704

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

Function Description: General purpose cleaner.

Product group AISE-C7 - SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use AISE-P301 - General purpose cleaner; Manual process. AISE-P312 - Glass cleaner; Manual process.

Use of the substance / preparation General cleaning (floor and inventory)

Uses advised against Should only be used in areas mentioned above.

Use of chemical, comments AISE, International Association for Soaps, Detergents and Maintenance Products. To see what AISE codes means in accordance with REACH Use Descriptor System (SU, PC, PROC, ERC, AC), see excel-files at [www.aise.eu](http://www.aise.eu). Search for Institutional, Industrial or Consumer use mapping.

**1.3. Details of the supplier of the safety data sheet**

Company name Lilleborg AS

Office address Nedre Skøyenvei 26

Postal address Postboks 673 Skøyen

Postcode 0214

City OSLO

Country NORGE

Telephone number	80033444
Email	<a href="mailto:forbrukerservice@orkla.no">forbrukerservice@orkla.no</a>
Website	<a href="http://www.orklahpc.no">www.orklahpc.no</a>

## 1.4. Emergency telephone number

Emergency telephone	Telephone number: 22 59 13 00 Description: Giftinformasjonen
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Corr. 1B; H314; Bridging principle "Dilution" STOT SE 3; H335; Minimum classification Aquatic Chronic 3; H412; Calculation method
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### 2.2. Label elements

#### Hazard pictograms (CLP)



Composition on the label	Ammonia solution 9 %
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P405 Store locked up. P260 Do not breathe dust / fume / gas / mist / vapours / spray. P280 Wear protective gloves / protective clothing / eye protection / face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 Immediately call a POISON CENTER or doctor / physician. P303+P361+P353 IF ON SKIN (or hair): Remove / 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. P501 Dispose of contents / container to reception in accordance with local regulations.
EC label	No

### 2.3. Other hazards

Description of hazard	May liberate chloramine gas (toxic/harmful for health) if mixed with substances/ mixtures that contain chlorine.
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## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents
Ammonia solution	CAS No.: 1336-21-6 EC No.: 215-647-6 REACH Reg. No.: 01-2119488876-14	STOT SE3;H335 Skin Corr 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	9 %
Substance comments	All components with hazard label are given in accordance with "Regulations for registration, evaluation and authorisation of chemicals (REACH)." Full text for H- and EUH-phrases to be found in pt 16.		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Show this safety data sheet to the doctor in attendance.
Inhalation	If feeling uncomfortable - seek fresh air. Consult a physician if irritation persist.
Skin contact	Rinse with plenty of water.
Eye contact	Remove any contact lenses. Flush with large amounts of water (also under eyelids) for at least 15 minutes. Contact physician.
Ingestion	Drink 2-3 glasses of water or milk. DO NOT INDUCE VOMITING. Get medical advice.
Recommended personal protective equipment for first aid responders	Do not perform actions that involve danger to personell. If gas in the area, emergency medical technician must use self-contained breathing apparatus. It could be dangerous to use mouth to mouth CPR.

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

Acute symptoms and effects	Causes severe skin burns and eye damage. May irritate the respiratory tract. Exposure to decomposition products can be injurious to health. Symptoms may include: redness watering pain or irritation
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### 4.3. Indication of any immediate medical attention and special treatment needed

Medical monitoring for delayed effects	When inhaling decomposition products in a fire situation, the symptoms can be delayed. The affected person may need medical intensive care for 48 hours.
Specific details on antidotes	Not known.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire.
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### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is not combustible. Evolves combustible gases if heated.
Hazardous combustion products	Toxic vapour/gases may evolve if heated or during a fire. Nitrogen oxides.

### 5.3. Advice for firefighters

Personal protective equipment	In case of fire, use portable respiratory protective equipment and personal protective equipment. Self-contained breathing apparatus (SCBA) with a full face-piece. Operate in positive pressure mode. Clothing for fire-fighters conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Other information	Isolate hazard area and deny entry to unauthorized personnel.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Use protection if necessary. See pt. 8.
Personal precautions	Use protective equipment as described in section 8 in this SDS.
Emergency procedures	No action shall be taken by persons without suitable training. No action shall be taken involving personal risk. Evacuate surrounding areas. Keep unprotected personnel from entering. Do not touch spilled material. Provide adequate ventilation. Use suitable respiratory protective equipment if the ventilation is not adequate.
For emergency responders	Use protective equipment as described in section 8 in this safety data sheet.

### 6.2. Environmental precautions

Environmental precautionary measures	Collect spillage. Large amount of spillage: Avoid spillage into drain and soil. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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### 6.3. Methods and material for containment and cleaning up

Cleaning method	Absorb in vermiculite, dry sand or earth and collect in containers. Dispose off via a licensed waste disposal contractor.
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### 6.4. Reference to other sections

Other instructions	See Section 1 for emergency phone number. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Avoid handling which may cause splash in eyes or contact with skin. Do not use in confined spaces without adequate ventilation and/or respiratory equipment. Refer to section 8 (Exposure control/personal protection).
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### Protective safety measures

Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands after use/contact.
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## 7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in a dry, cool, well-ventilated area, protected from direct sunlight. Store in original container. To be stored separate from incompatible materials (see section 10). Keep out of the reach of children.

## 7.3. Specific end use(s)

Recommendations

Use as all-purpose cleaner.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Value	TWA Year
Ammonia solution	CAS No.: 1336-21-6	TWA (8h) : 11 mg/ m <sup>3</sup> (ammonia) TWA (8h) : 15 ppm (ammonia) <b>OEL short term value</b> Value: 36 mg/m <sup>3</sup> (ammonia) <b>OEL short term value</b> Value: 50 ppm (ammonia)	TWA Year: 2013

Biological limit value

Investigation parameter: Ammoniakkjøpsning (ammonia, aqueous solution):  
DNEL short term Skin: 6,8 mg/kg bw/day; workers; systematic effect  
DNEL short term Oral: 6,8 mg/kg bw/day; workers; systematic effect  
DNEL short term Inhalation: 36 mg/m<sup>3</sup>; workers; systematic effect  
DNEL long term Inhalation: 14 mg/m<sup>3</sup>; workers; systematic effect  
PNEC Freshwater: 0,0011 mg/l  
PNEC Sea: 0,011 mg/l

### 8.2. Exposure controls

Limitation of exposure on workplace

Only to be used in ventilated areas. Use closed process, local ventilation or other technical solutions to meet the recommended and legal air contamination exposure limits.

### Precautionary measures to prevent exposure

Technical measures to prevent exposure

Provide adequate ventilation. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below the limits.

### Eye / face protection

Eye protection

Wear goggles/face shield. CEN:EN136 Face shield is recommended.

### Hand protection

Hand protection

Always use gloves. Butylgummi eller Viton(R)

Breakthrough time

Value: > 8 hour(s)

### Skin protection

Skin protection (except hands)	Wear suitable clothing to avoid skin contact.
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## Respiratory protection

Respiratory protection	Provide adequate ventilation. Use air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates that this is necessary. Use respiratory protection equipment with 95% reduction for professional usage.
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Recommended type of equipment	Ammonia filter (Type K).
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## Appropriate environmental exposure control

Environmental exposure controls	Conditions and measures related to municipal sewage treatment plant: Total efficiency of removal from wastewater after on-site and off-site (domestic treatment plant) RMMs (%): > 90%. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. All contaminated waste water must be processed in an industrial or municipal wastewater treatment plant that incorporates both primary and secondary treatments. Aerobic biological treatment. Anaerobic biological treatment. Suitable waste treatment: Biological nitrification. Biological nitrogen elimination. Waste management measures: Aerobic biological treatment. Anaerobic biological treatment.
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Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
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## Exposure controls

Safety measures for consumer use of the chemical	Dilute before use. Read label before use. Max use concentration: 4% ammonia solution Max use frequency: 1 time/week
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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Colourless.
Odour	Ammonia-like.
Odour limit	Value: 5 ppm
pH	Status: In delivery state Value: ~ 12.5  Status: In aqueous solution Value: ~ 11 Comments: 1 0,7% solution.
Specific gravity	Value: ~ 0.96 kg/dm <sup>3</sup>
Solubility description	Very soluble in water.

## 9.2. Other information

### Other physical and chemical properties

Comments No additional information.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No specific test data related to reactivity available for this product.

### 10.2. Chemical stability

Stability Stabel under given storage conditions. Se seksjon 7.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4. Conditions to avoid

Conditions to avoid No specific data.

### 10.5. Incompatible materials

Materials to avoid Products containg chlorine. Must not be mixed with materials/products containing chlorine, when this will liberate toxic and strongly irritating gas of chloramines. Reacts violently with halogenes.  
Corrosive to galvanized metal.  
Exothermic reaction with strong acids.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products will not occur.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity Type of toxicity: Acute  
Effect tested: LD50  
Route of exposure: Oral  
Value:

### Other information regarding health hazards

General The product is alkaline and causes burns.

Inhalation Irritating to the respiratory system.

Skin contact The substance causes burns.

Eye contact Risk of serious damage to eyes.

Ingestion	Can cause stinging pain in mouth, throat and stomach. Can cause stomach pains.
Chronic effects	Chronic NOAEL Oral, mammal-unspecified species: 68 mg/kg. Exposure time: 28 days. (ammonia solution)
Mutagenicity	Contain no substances known to cause heritable genetic damage.
Carcinogenicity, other information	Contain no substances known as carcinogenic.
Teratogenic properties	Contains no compounds known harmful to featus.
Reproductive toxicity	Contain no substances known or suspected to be harmful to reproduction.
Specific target organ toxicity SE, human experience	Inhalation exposure.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Ammonia solution
Acute aquatic, fish	<b>Value:</b> 0,89 mg/l <b>Test duration:</b> 96 hours <b>Method:</b> LC50
Substance	Ammonia solution
Acute aquatic, Daphnia	<b>Value:</b> 0,101 mg/l <b>Test duration:</b> 96 hours <b>Method:</b> LC50

### 12.2. Persistence and degradability

Persistence and degradability, comments	Readily biodegradable.
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### 12.3. Bioaccumulative potential

Bioaccumulative potential	Contains no substances that are likely to bioaccumulate.
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### 12.4. Mobility in soil

Mobility	Dissolves in water. Provided low mobility in soil based on log Koc-value < 3.
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### 12.5. Results of PBT and vPvB assessment

PBT assessment results	No known significant effects or critical hazards.
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### 12.6. Other adverse effects

Environmental details, summation	The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
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## SECTION 13: Disposal considerations



### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Should be treated in accordance with instructions for dangerous waste. (Forskrift om farlig avfall).
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	No
Other information	EAL: 07 06 WASTE FROM THE MFSU OF FATS, GREASE, SOAPS, DETERGENTS DISINFECTANTS AND COSMETICS Norwegian wasteno. 7132 Alkaline inorganic waste

## SECTION 14: Transport information

### 14.1. UN number

ADR / RID / ADN	1760
IMDG	1760
ICAO / IATA	1760

### 14.2. UN proper shipping name

ADR / RID / ADN	CORROSIVE LIQUID, N.O.S.
IMDG	CORROSIVE LIQUID, N.O.S.
ICAO / IATA	CORROSIVE LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

ADR / RID / ADN	8
IMDG	8
ICAO / IATA	8

### 14.4. Packing group

ADR / RID / ADN	III
IMDG	III
ICAO / IATA	III

### 14.5. Environmental hazards

ADR / RID / ADN	Not classified as dangerous for the environment according to ADR/RID.
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### 14.6. Special precautions for user

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

#### Additional information

Additional information	Limited quantity as dangerous goods (according to ADR, RID and IMDG) due to
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small packaging.

### ADR / RID - Other information

Hazard No. 80

### IMDG / ICAO / IATA Other information

EmS F-A, S-B

## SECTION 15: Regulatory information

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

Legislation and regulations	Registration, evaluation and authorisation of chemicals (REACH). Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation). Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Regulations related to pollution in the working atmosphere (Ministry of Labour and Social Affairs). Transport labelling is in accordance with the ADR/RID/IMDG-regulations.
Declaration No.	2906

### 15.2. Chemical safety assessment

Chemical safety assessment performed	Yes
Chemical safety assessment	Action/recommendations given under the various sections are based on evaluations and implementations of information in received exposure scenarios (ES).

## SECTION 16: Other information

Supplier's notes	The informasjon in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. Registered in Norwegian poison control (Giftinformasjonssentralen), phone no.: +47 22 59 13 00. (Open day and night).
List of relevant H-phrases (Section 2 and 3)	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Key literature references and sources for data	Information from the raw material suppliers.
Information added, deleted or revised	Updated according to internal procedures.
Last update date	15.11.2023

Checking quality of information

Quality control of MSDS done by MH.

Version

3.1

Prepared by

Orkla Home & Personal Care