

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

1.1. Product identifier

Product Name: AR Kleen
Synonyms: Not available.

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

Identified uses: Lens cleaner.
Uses advised against: Not available.

1.3. Details of the supplier of the safety data sheet

Name: Nomax, Inc./Amcon Laboratories
Address: 9735 Green Park Industrial Drive
Saint Louis Mo 63123
Phone Number: 314-815-5200
E-mail of competent person responsible for SDS in the EU: Clvoellinger@nomax.com

1.4. Emergency telephone number:

Emergency Phone: 314-815-5200

Section 2: Hazards identification

2.1. Classification of the substance or mixture

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

CLP Classification: Not hazardous according to CLP (Regulation (EC) No 1272/2008).

2.1.3 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2. Label elements

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

Hazard None.

Pictogram(s):

Signal Word: None.

Hazard Statements: Not applicable.

Precautionary Statements

Prevention: Not applicable.

Response: Not applicable.

Storage: Not applicable.

Disposal: Not applicable.

2.3. Other hazards

Not Classified as PBT/vPvB by EU criteria.

Section 3: Composition / information on ingredients

3.2. Mixtures

Ingredient(s)	CAS No.	EC No.	Wt. %	Classification according to Regulation (EC) No 1272/2008 (CLP)*
Methanol	67-56-1	200-659-6	< 0.01	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 STOT SE 1; H370
Formaldehyde	50-00-0	200-001-8	< 0.01	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Acute Tox. 3; H331 Muta. 2; H341 Carc. 1B; H350
Sodium hydroxide	1310-73-2	215-185-5	< 0.01	Skin Corr. 1A; H314

* See section 16 for the full text of the hazard phrases. Occupational exposure limits, if available, are listed in section 8.

Section 4: First aid measures

4.1. Description of first aid measures

- Inhalation:** If inhaled: Call a poison center or doctor if you feel unwell.
- Eye Contact:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell.
- Skin Contact:** If on skin: Wash with plenty of water. Call a poison center or doctor if you feel unwell.
- Ingestion:** If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

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

- Inhalation:** Not expected to cause any harmful effects under normal conditions of use. Excessive inhalation of aerosol may cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

- Eye Contact:** May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
- Skin Contact:** Not expected to cause any harmful effects under normal conditions of use. Prolonged contact with the product may cause skin irritation in some individuals. Signs/symptoms may include localized redness, swelling, and itching.
- Ingestion:** Not expected to cause any harmful effects under normal conditions of use. Intentional ingestion of this product may cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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

Note to Physicians: Symptoms may not appear immediately.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media: Use appropriate extinguishing media for surrounding fire. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media: Not available.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protection of Firefighters: Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel: Do not touch or walk through spilled material. Use personal protection recommended in Section 8.

6.1.2. For emergency responders: Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

6.2. Environmental precautions

No environmental precautions are necessary.

6.3. Methods and material for containment and cleaning up

6.3.1. Methods for Containment: Stop leak if without risk.

6.3.2. Methods for Clean-Up: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

6.3.3. Other Information: Dispose of contents/container according to local regulations.

6.4. Reference to other sections

See Section 8 for occupational exposure limits and risk management measures. Refer to Section 13 for disposal considerations.

Section 7: Handling and storage

7.1. Precautions for safe handling

Do not swallow. See Section 8 for information on Personal Protective Equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

7.3. Specific end use(s)

Lens cleaner. No specific instructions required.

Section 8: Exposure controls / personal protection

8.1. Control parameters

Component

Methanol [CAS No. 67-56-1]

ACGIH: 200 ppm (TWA); 250 ppm (STEL); Skin; BEI (2008)

Formaldehyde [CAS No. 50-00-0]

ACGIH: 0.1 ppm (TWA); 0.3 ppm (STEL); DSEN; RSEN; A1 (2016)

Sodium hydroxide [CAS No. 1310-73-2]

ACGIH: 2 mg/m³ (C); (1992)

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

C: Ceiling

8.2. Exposure controls

8.2.1. Appropriate Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

8.2.2. Personal Protection Equipment



Eye/Face Protection:

Safety glasses are recommended. Use equipment for eye protection according to European Standard EN 166.

Skin Protection:

Hand Protection: Protective gloves are recommended. Consult manufacturer specifications for further information.

Body Protection: Not required under normal use conditions.

Respiratory Protection:	Not required under normal use conditions.
Thermal Hazards:	Not applicable.
General Hygiene Considerations:	Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

8.2.3. Environmental exposure controls:

Follow all applicable environmental protection legislation.

Section 9: Physical and chemical properties

Appearance:	Clear, colourless liquid.
Odour:	Odourless.
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	8.5 to 9
Melting Point / Freezing Point:	~ -1.1 °C (30 °F)
Initial Boiling Point:	Not available.
Boiling Range:	~ 101.7 °C (215 °F)
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability (solid, gas):	Not applicable.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Relative Density:	1.0 (Water = 1)
Solubilities:	Soluble in water.
Partition Coefficient: n-Octanol/Water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Explosive Properties:	Not available.
Oxidising Properties:	Not available.
Density:	8.32 lb/gal

Section 10: Stability and reactivity

- 10.1. Reactivity** Contact with incompatible materials.
- 10.2. Chemical stability** Stable under normal storage conditions.
- 10.3. Possibility of hazardous reactions** None known.
- 10.4. Conditions to avoid** Contact with incompatible materials. Exposure to heat.
- 10.5. Incompatible materials** Strong oxidizers.
- 10.6. Hazardous decomposition products** None known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity:

Inhalation: Not expected to cause any harmful effects under normal conditions of use. Excessive inhalation of aerosol may cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Eye: May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin: Not expected to cause any harmful effects under normal conditions of use. Prolonged contact with the product may cause skin irritation in some individuals. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: Not expected to cause any harmful effects under normal conditions of use. Intentional ingestion of this product may cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Component	CAS No.	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀
Methanol	67-56-1	5268 mg/kg (rat)	15800 mg/kg (rabbit)	64000 ppm (rat); 4H
Formaldehyde	50-00-0	100 mg/kg (rat)	0.27 mL/kg (rabbit)	205 ppm (rat); 4H
Sodium hydroxide	1310-73-2	Not available.	Not available.	Not available.

Skin corrosion / irritation: Not expected to cause any harmful effects under normal conditions of use (based on ingredients).

Serious eye damage/irritation: Not expected to cause eye irritation (based on ingredients).

Respiratory or skin sensitisation: Not expected to cause respiratory or skin sensitisation. However, product contains trace amounts of Formaldehyde.

Germ cell mutagenicity: Not expected to cause germ cell mutagenicity, based on component information.

Carcinogenicity: Product is not classified as a carcinogen. See Component Carcinogenicity table below for information on individual components.

Component Carcinogenicity

Component	ACGIH	IARC	NTP
Formaldehyde	A1	Group 1	List 1

Reproductive toxicity: Not expected to cause reproductive toxicity, based on component information.

STOT-single exposure: Not expected to cause specific target organ toxicity, based on component information.

STOT-repeated exposure: Not expected to cause specific target organ toxicity.

Aspiration hazard: Not expected to be an aspiration hazard, based on component information.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Other information on adverse health effects: No other adverse effects expected.

Section 12: Ecological information

12.1. Toxicity Not available.

12.2. Persistence and degradability Not available.

12.3. Bioaccumulative potential Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment Not available as chemical safety assessment not required/not conducted.

12.6. Other adverse effects Not available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal Instructions:
 Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Waste should not be disposed of by release to sewers.

Section 14: Transport information

ADR / RID

14.1. UN number: Not regulated.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.4. Packing group: Not applicable.

14.5. Environmental hazards: Not applicable.

14.6. Special precautions for user: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

Section 15: Regulatory information

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

Authorisations: Not applicable.

Restrictions on use: None.

Other EU regulations: Not an ozone depleting substance, and not a persistent organic pollutant.

National regulations: Not applicable.

15.2. Chemical safety assessment

Chemical Safety Assessment: No Chemical Safety Assessments have been carried out for this substance.

Section 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

<u>Classification according to Regulation (EC) No 1272/2008</u>	<u>Classification procedure</u>
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Not hazardous.

Product composition.

Relevant H-statements (number and full text):

H225: Highly flammable liquid and vapour.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H331: Toxic if inhaled.
H341: Suspected of causing genetic defects.
H350: May cause cancer.
H370: Causes damage to organs.

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

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