

SAFETY DATA SHEET**SECTION 1. IDENTIFICATION****Product identifier used on the label**: **Aerolon Clearcoat****Product Code(s)** : None reported.**Recommended use of the chemical and restrictions on use**: Aircraft Paint Protectant
Restriction on use: None known**Chemical family** : Mixture**Name, address, and telephone number of the supplier:****California Detailing Inc.**dba Aerolon
340 Fell Street
San Francisco, CA, USA
94102

Supplier's Telephone # : 415-722-1011

24 Hr. Emergency Tel # : 24 Hr. Emergency Tel. # 800-255-3924**Name, address, and telephone number of the manufacturer:**

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION**Classification of the chemical**

Semi viscous, off white cream with a bubble gum odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable Liquid - Category 4

Label elements*Hazard pictogram(s)*

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

Warning!

Hazard statement(s)

Combustible liquid.

*Precautionary statement(s)*Keep away from flames and hot surfaces. - No smoking.
Wear protective gloves and eye/face protection.
In case of fire: Use water fog, dry chemical, CO₂ or 'alcohol' foam to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.**Other hazards**

Other hazards which do not result in classification:

Ingestion may cause irritation of the mouth, throat and stomach. May cause respiratory irritation. Contact with eyes may cause irritation. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Environmental precautions:

Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Hydrotreated light distillate	Isoparaffinic petroleum distillate Kerosene (petroleum), hydrotreated	64742-47-8	5.0 - 15.0
Alkanes, C12-14, iso-	Not available.	68551-19-9	1.0 - 5.0
Solvent naphtha (petroleum) heavy aliphatic	Heavy aliphatic solvent naphtha	64742-96-7	1.0 - 5.0
Ammonium hydroxide	Aqueous Ammonia	1336-21-6	<1

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : If swallowed: Immediately call a poison center/doctor. Do not induce vomiting. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : Wash affected areas with soap and water. Take off contaminated clothing and wash before re-use. Get medical attention if irritation develops and persists.
- Eye contact* : Flush with large amounts of water for 15 minutes. Remove contact lenses, if present and easy to do. If irritation or symptoms develop, seek medical attention.

Most important symptoms and effects, both acute and delayed

- : Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects. Direct eye contact may cause temporary redness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media* : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media* : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Combustible liquid. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapour can travel considerable distance and flashback to a source of ignition. Vapours are heavier than air and collect in confined and low-lying areas.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquid - Category 4

Hazardous combustion products

- : Carbon dioxide and carbon monoxide. Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

Special fire-fighting procedures

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- : Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Spilled material will create slippery surfaces. Clean up promptly. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): None reportable.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use only outdoors or in a well-ventilated area. Wear suitable protective equipment. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting/equipment. Take precautionary measures against static discharges. Bond and ground transfer containers and equipment to avoid static accumulation. Label containers appropriately. Wash thoroughly after handling. Keep containers closed when not in use.

- Conditions for safe storage** : Store locked up. Store in a cool, dry, well-ventilated area. Keep container tightly closed. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

- Incompatible materials** : Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Hydrotreated light distillate	200 mg/m ³ (as total hydrocarbon vapour)	N/Av	N/Av	N/Av
Alkanes, C12-14, iso-	N/Av	N/Av	N/Av	N/Av
Solvent naphtha (petroleum) heavy aliphatic	N/Av	N/Av	500 ppm (2000 mg/m ³)	N/Av
Ammonium hydroxide	25 ppm (Ammonia)	35 ppm (Ammonia)	50 ppm (Ammonia)	N/Av

Exposure controls

Ventilation and engineering measures

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- Respiratory protection** : Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Use explosion-proof electrical and ventilating equipment.
- Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists.
- Skin protection** : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye / face protection** : Wear eye/face protection. Wear safety glasses with side shields.
- Other protective equipment** : Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Semi-viscous, off white cream
- Odour** : Bubble gum
- Odour threshold** : No information available.
- pH** : Not available.
- Melting/Freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : 61°C
- Flashpoint (Method)** : Tag closed cup
- Evaporation rate (BuAe = 1)** : <1
- Flammability (solid, gas)** : Not applicable.
- Lower flammable limit (% by vol.)** : Not available.
- Upper flammable limit (% by vol.)** : Not available.
- Oxidizing properties** : None known.
- Explosive properties** : Not explosive
- Vapour pressure** : Not available.
- Vapour density** : >1(Air = 1)
- Relative density / Specific gravity** : 0.97 @ 70°F
- Solubility in water** : Insoluble.
- Other solubility(ies)** : No information available.
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : Not available.
- Auto-ignition temperature** : 220°C (500°F)
- Decomposition temperature** : No information available.
- Viscosity** : 16,700-28,700 cps
- Volatiles (% by weight)** : Not available.
- Volatile organic Compounds (VOC's)** : No information available.
- Absolute pressure of container** : N/Ap
- Flame projection length** : N/Ap
- Other physical/chemical comments** : None known or reported by the manufacturer.

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SECTION 10. STABILITY AND REACTIVITY

- Reactivity** : Not normally reactive.
- Chemical stability** : Stable under normal conditions.
- Possibility of hazardous reactions** : Hazardous polymerization does not occur.
- Conditions to avoid** : Keep away from heat, sparks and flame. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.
- Incompatible materials** : See Section 7 (Handling and Storage) for further details.
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

- Routes of entry inhalation** : YES
- Routes of entry skin & eye** : YES
- Routes of entry Ingestion** : YES
- Routes of exposure skin absorption** : NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Sign and symptoms ingestion

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

- : Direct skin contact may cause slight or mild, transient irritation.

Sign and symptoms eyes

- : Direct eye contact may cause slight redness.

Potential Chronic Health Effects

- : Prolonged exposure can cause redness, swelling, itching, cracking of the skin, dermatitis and sensitization.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

- : Not expected to have other reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects : This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Medical conditions aggravated by overexposure

- : Pre-existing skin, eye and respiratory disorders.

Synergistic materials : No information available.

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

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Chemical name	LC₅₀(4hr) inh, rat	LD₅₀	
		(Oral, rat)	(Rabbit, dermal)
Hydrotreated light distillate	> 5.2 mg/L (aerosol) (No mortality)	> 5000 mg/kg	> 2000 mg/kg (No mortality)
Alkanes, C12-14, iso-	5.3 mg/L	>5000 mg/kg	>2000 mg/kg
Solvent naphtha (petroleum) heavy aliphatic	> 6 mg/L	> 5000 mg/kg	> 2000 mg/kg
Ammonium hydroxide	3670 ppm (rat) (Ammonia) 2115 ppm (mouse) (Ammonia)	350 mg/kg	N/Av

Other important toxicological hazards

: See Section 2 for additional information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See the following tables for the substance's ecotoxicity data. Do not allow this material to drain into sewers/water supplies.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Hydrotreated light distillate	64742-47-8	20 mg/L (Rainbow trout) (Read-across)	N/Av	None.
Alkanes, C12-14, iso-	68551-19-9	>10000 mg/L	N/Av	None.
Solvent naphtha (petroleum) heavy aliphatic	64742-96-7	N/Av	N/Av	None.
Ammonium hydroxide	1336-21-6	8.2 mg/L (Fathead minnow)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Hydrotreated light distillate	64742-47-8	40 - 89 mg/L (Daphnia magna) (Read-across)	0.48 mg/L (Read-across)	None.
Alkanes, C12-14, iso-	68551-19-9	>100 mg/L (Daphnia magna)	N/Av	None.
Solvent naphtha (petroleum) heavy aliphatic	64742-96-7	1.4 mg/L (Daphnia magna)	0.48 mg/L	None.
Ammonium hydroxide	1336-21-6	0.66 mg/L (Daphnia magna)	N/Av	1

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrotreated light distillate	64742-47-8	6.2 mg/L/96hr (Green algae) (Read-across)	0.4 mg/L/96hr (Read-across)	None.
Alkanes, C12-14, iso-	68551-19-9	>100 mg/L (Green algae)	N/Av	None.
Solvent naphtha (petroleum) heavy aliphatic	64742-96-7	N/Av	N/Av	None.
Ammonium hydroxide	1336-21-6	N/Av	N/Av	None.

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Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Hydrotreated light distillate (CAS 64742-47-8)	5.1 - 8.8	N/Av

Mobility in soil : This material has low solubility and floats, and is expected to migrate from water to the land.

Other Adverse Environmental effects

: No data is available on the product itself.


SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7. Empty containers may contain hazardous residues.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep away from flames and hot surfaces. - No smoking.

Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See Section 12 for more environmental information.

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

: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Hydrotreated light distillate	64742-47-8	Yes	None.	None.	No	N/Ap
Alkanes, C12-14, iso-	68551-19-9	Yes	N/Ap	N/Av	No	N/Ap
Solvent naphtha (petroleum) heavy aliphatic	64742-96-7	Yes	N/Ap	N/Av	No	N/Ap
Ammonium hydroxide	1336-21-6	Yes	1000 lb/ 454 kg	N/Ap	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Physical hazards: Flammable .Health hazards None.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Hydrotreated light distillate	64742-47-8	No	N/Ap	No	No	No	No	No	No
Alkanes, C12-14, iso-	68551-19-9	No	N/Ap	No	No	No	No	No	No
Solvent naphtha (petroleum) heavy aliphatic	64742-96-7	No	N/Ap	No	No	No	No	No	No
Ammonium hydroxide	1336-21-6	No	N/Ap	Yes	Yes	No	Yes	Yes	No

No ingredient regulated by CA Prop 65 present.

Canadian Information:

All ingredients are present on the DSL.
WHMIS Classification: See Section 2.

International Information:

Components listed below are present on the following International Inventory list:

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Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Hydrotreated light distillate	64742-47-8	265-149-8	Present	Present	(9)-1700	KE-12550	Present	May be used as a single component chemical under an appropriate group standard.
Alkanes, C12-14, iso-	68551-19-9	271-369-5	Present	Present	Present	KE-00534	Present	No data available.
Solvent naphtha (petroleum) heavy aliphatic	64742-96-7	265-200-4	Present	Present	Not listed	KE-31655	Present	May be used as a single component chemical under an appropriate group standard.
Ammonium hydroxide	1336-21-6	215-647-6	Present	Present	(1)-314	KE-01688	Present	HSR001526, HSR001517, HSR001516, HSR001563 (dilution)

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CNS: Central Nervous System
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- EINECS: European Inventory of Existing Commercial chemical Substances
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- N/Ap: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
- 2. International Agency for Research on Cancer Monographs, searched 2017
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - 2017 version.
- 6. California Proposition 65 List - 2017 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2017.

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Preparation Date (mm/dd/yyyy)

: 06/22/2018

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> California Detailing Inc. dba Aerolon 340 Fell Street San Francisco, CA 94102 Telephone: 415-722-1011</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

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