



Safety Data Sheet (SDS)

Date Prepared/Revised: 5/21/19 Version no.: 05 Supersedes: 2/1/19

1. Identification of the Mixture and of the Company

Product identifier: **Crown All-4 - Aerosol**

Product name: **7340 All-4**

Relevant identified uses of the substance: Use on bulbs and sockets, circuit breakers, cables, elevators, generators, ignition systems, lift trucks, coils, vending machines, lawn mowers, machinery, spare parts, nuts and bolts, wheels, bicycles, transformers, etc.

Uses advised against: Poorly ventilated areas

CAS No:	Not Applicable (mixture)
EC No:	Not Applicable (mixture)
Index No:	Not Applicable (mixture)
Manufacturer/Supplier:	Aervoe Industries Incorporated
Street address/P.O. Box:	1100 Mark Circle
Country ID/Postcode/Place	Gardnerville, Nevada 89410
Telephone number:	1-775-782-0100
e-mail:	mailbox@aervoe.com
National contact:	Aervoe Industries Incorporated
For Product Information:	1-800-227-0196
Emergency telephone number:	1-800-424-9300 (CHEMTREC – 24 hrs)

2. Hazards identification

Classifications

Physical Hazards: Aerosol - Category 1
Compressed Gas

Health Hazards: Asp. Tox. 1

Environmental Hazards: Aquatic Acute 2

Labeling

Signal Word: Danger

Hazard Statements: H223 – Extremely flammable Aerosol
H280 – Pressurized container: may explode if heated
H304 – May be fatal if swallowed and enters airways.
H412 – Toxic to aquatic life.

Precautionary Statements: Precautionary Statements:



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Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not apply while equipment is energized. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves. Avoid release to the environment.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Disposal

Dispose of contents/container in accordance with local/regional/national regulations.



Symbols/Pictograms:

3. Composition / Information on Ingredients

Composition

Chemical	Synonyms	CAS Number	EINECS Number	Weight Percent
Aliphatic Hydrocarbon	Petroleum Distillates	64742-47-8	265-149-8	40-70%
White Mineral Oil	Paraffin Oil	8042-47-5	232-455-8	10-30%
Butyl stearate		123-95-5	204-666-5	3-7%
Carbon Dioxide	CO ₂	124-38-9	204-696-9	1-5%
Petrolatum	0	8009-03-8	232-373-2	1-5%
Sorbitan monooleate	0	1338-43-8	215-665-4	1-5%
Sorbitan Monotallate	0	61791-48-8	263-181-7	1-5%

Specific chemical and/or percentage of composition has been withheld as a trade secret

Other Product Information



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Chemical Identity: Mixture

4.) First Aid Measures

General Advice:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Inhalation First Aid:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin Contact First Aid:	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye Contact First Aid:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion First Aid:	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most Important Symptoms/Effects:	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Diarrhea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire Fighting Measures

Flammable Properties:	Aerosol
Auto Ignition Temperature:	428°F (220°C)
Suitable extinguishing media:	Alcohol resistant foam. Dry chemical powder. Dry chemicals. Carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture:	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Hazardous combustion products:	Carbon dioxide, Carbon monoxide
Fire & Explosion Hazards:	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.
Precautions for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots,



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and in enclosed spaces, SCBA. In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental Release Measures

PERSONAL PRECAUTIONARY MEASURES:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

SPILL CLEAN-UP PROCEDURES:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

ENVIRONMENTAL PRECAUTIONS:

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Handling: Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

Conditions for safe storage, including any incompatibilities: Level 3 Aerosol. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture,



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incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls / Personal Protection

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Personal Protection:

Wear safety glasses with side shields (or goggles).

Skin protection

Wear protective gloves such as: Neoprene. Nitrile. Wear appropriate chemical resistant clothing

Respiratory protection:

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Thermal hazards:

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Ingredient	CAS Number	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL	NIOSH (STEL)	NIOSH (TWA)
Aliphatic Hydrocarbon	64742-47-8	N/AV	N/AV	N/AV	N/AV	100 mg/m ³
White Mineral Oil	8042-47-5	5 mg/m ³	N/AV	5 mg/m ³	10 mg/m ³	5mg/m ³
Butyl stearate	123-95-5	10 mg/m ³	N/AV	N/AV	N/AV	N/AV
Carbon Dioxide	124-38-9	5000 ppm	30000 ppm	9000 mg/m ³	54000 mg/m ³	9000 mg/m ³
Petrolatum	8009-03-8	5 mg/m ³	N/AV	5 mg/m ³	10 mg/m ³	5 mg/m ³

*Values are based on the 2014 Guide to Occupational Exposure Values by ACGIH



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9. Information on Basic Physical and Chemical Properties

Appearance: Amber liquid	Odor: Hydrocarbon odor
Odor Threshold: N/AV	pH: Not Applicable (solvent Base)
Melting Point: -56.2°F (-49° C) Estimated	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: 200 °F (93.3°C) Tag Closed Cup	Evaporation Rate: Slower than Ether
Flammability Solid/Gas: Flammable gas	LEL: 0.6% UEL: 5.5%
Vapor Pressure: 2293 hPa estimated	Vapor Density: >1 (air=1)
Relative Density: 0.84 estimated	Solubility: Negligible
Partition Coefficient: n-octanol/ water: N/AV	Auto-ignition Temperature: 428°F (220°C) estimated
Decomposition Temperature: N/AV	Viscosity: N/AV
Explosive Properties: N/AV	Oxidizing Properties: N/AV
Percent Volatile: 68% estimated	

10. Stability & Reactivity

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions

Chemical stability: Stable under normal conditions

Conditions to avoid: Heat and ignition sources

Incompatible materials: Strong Oxidizing Agents

Hazardous decomposition products: Carbon Oxides

11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data:

Component	Test Type	Test Result	Species
butyl stearate (CAS 123-95-5)	Acute Oral LD50	32g/kg	Rat
Carbon Dioxide (CAS 124-38-9)	Acute Inhalation LC50	470000 ppm, 30 minutes	Rat
distillates (petroleum), hydrotreated light (CAS 64742-47-8)	Acute Dermal	>2000 mg/kg	Rat
	Acute Inhalation	>5.2 mg/l, 4 hours	Rat
	Acute Oral	>5000 mg/kg, 2.5 hrs	Rat
petrolatum (CAS 8009-03-8)	Acute Dermal	>2000 mg/kg	Rabbit
	Acute Inhalation	>20 mg/l, 4 hours	Rat



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	Acute Oral	>2000 mg/kg, 2.5 hrs	Rat
sorbitan monooleate (CAS 1338-43-8)	Acute Dermal	>2000 mg/kg	Rabbit
	Acute Inhalation	>20 mg/l, 4 hours	Rat
	Acute Oral	39800 mg/kg, 2.5 hrs	Rat
sorbitan monotallate (CAS 61791-48-8)	Acute Dermal	>2000 mg/kg	Rabbit
	Acute Inhalation	>20 mg/l, 4 hours	Rat
	Acute Oral	39800 mg/kg, 2.5 hrs	Rat
white mineral oil (CAS 8042-47-5)	Acute Dermal	>2000 mg/kg	Rabbit
	Acute Inhalation	>5 mg/l, 4 hours	Rat
	Acute Oral	5000 mg/kg, 2.5 hrs	Rat

Eye irritation data:

Causes eye irritation

Skin irritation/sensitization/absorption data:

Prolonged skin contact may cause temporary irritation Not a respiratory sensitizer. Not expected to be a skin sensitizer.

Reproductive toxicity data:

This product is not expected to cause reproductive or developmental effects

Mutagenicity data:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Symptoms associated with physical contact:

N/A

Acute/chronic effects from short/long term exposure:

Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.

Known reportable carcinogens via the following agencies:

NTP:

Not listed.

IARC:

white mineral oil (CAS 8042-47-5)3 Not classifiable as to carcinogenicity to humans.

OSHA:

Not regulated.

* Petroleum distillates may contain chemical carcinogens in limited quantities (< 0.01%). These quantities are determined by the supplier/fraction/purity of the distillate during the manufacturing process. Chemicals that may be present within distillates are listed on California's prop 65 list such as ETHYLBENZENE, BENZENE, and TOLUENE.



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12. Ecological Information

Ecotoxicity:

Components		Species	Test Results
distillates (petroleum), hydrotreated light (CAS 64742-47-8)			
Fish	LC50	Rainbow trout,donaldson trout(Oncorhynchus mykiss)	>1000 mg/L
Crustacea	EC50	Water Flea (Daphnia magna)	>1000 mg/l, 48 hours
sorbitan monooleate (CAS 1338-43-8)			
Fish	LC50	Rainbow trout,donaldson trout(Oncorhynchus mykiss)	>1000 mg/L

Persistence and degradability: **No Data Available**

Bioaccumulative potential: **No Data Available**

Mobility in soil: **No Data Available**

Results of PBT and vPvB assessment: **No Data Available**

Other adverse effects: **No Data Available**

13. Disposal Considerations

Waste Disposal: The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Empty container can be recycled. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.

Product / Packaging disposal: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transportation Information

US DOT

UN Number	Proper Shipping Name	Hazard Class	Packing Group	Marine Pollutant	Special Provisions
UN1950	Aerosols	2.1	Not Applicable	Not Applicable	Reference 49 CFR 172.101

IMDG

UN Number	Proper Shipping Name	Hazard Class	Packing Group	Marine Pollutant	Special Provisions
UN1950	Aerosols	2.1	Not Applicable	Not Applicable	Reference IMDG code part 3

IATA:

UN Number	Proper Shipping Name	Hazard Class	Packing Group	Marine Pollutant	Special Provisions
UN1950	Aerosols, Flammable	2.1	Not	Not	Reference



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			Applicable	Applicable	IATA Dangerous Goods Regulation
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15. Regulatory Information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.
(SDWA)

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids) Gas under pressure Aspiration hazard

SARA 302 Extremely

hazardous substance Not listed

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting) Not Regulated

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.(a))

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)



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Petrolatum (CAS 8009-03-8)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

carbon dioxide (CAS 124-38-9)

Light mineral oil (CAS 8042-47-5)

US. New Jersey Worker and Community Right-to-Know Act

carbon dioxide (CAS 124-38-9)

US. Pennsylvania Worker and Community Right-to-Know Law

carbon dioxide (CAS 124-38-9)

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Light mineral oil (CAS 8042-47-5)

US. Rhode Island RTK

carbon dioxide (CAS 124-38-9)distillates (petroleum),

hydrotreated light (CAS 64742-47-8)

petrolatum (CAS 8009-03-8)

white mineral oil (CAS 8042-47-5)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. Formore information go to www.P65Warnings.ca.gov

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s))

97.2 %

Consumer products (40 CFR 59, Subpt. C)

Not regulated

State

Consumer products

This product is regulated as a Multi-Purpose Lubricant. This product is compliant for use in all 50 states.

VOC content (CA) 0 %

VOC content (OTC) 0 %

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes



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New Zealand	New Zealand Inventory	Yes
Philippines (PICCS)	Philippine Inventory of Chemicals and Chemical Substances	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

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To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.