



Arctic Valve Cleaner

Section 1 - Product Identification

Product Name: Arctic Valve Cleaner
 Product Part Number: AVC
 Product Type: Valve Cleaner / Flush
 Chemical family: Mixture. Petroleum distillates

Recommended use of the chemical and restrictions on use:

Application _____ Valve Cleaner - Use Only as Entended.
 Uses advised against _____ DO NOT use this material in oxygen service.

Details of the supplier of the safety data sheet:

Manufacturer:

DUALCO, Inc., 8404 Braniff, Houston, Texas 77061
 Telephone: 713-644-1164 Website: dualco-inc.com

Emergency Telephone Number:

Emergency Telephone _____ 713-644-1164

Section 2 - Hazardous Identification

Classification of the Chemical

Appearance / Odor: Off White / Mild Grease

Hazardous Ingredients / Identity Information

Chemical Name	CAS Number	Composition %
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>75

NFPA Codes	
Health	1
Flammability	1
Reactivity	0

Special Hazard Designations

DOT (49CFR172) Not regulated
 OSHA (29CFR1910.1200) Evaluation: Hazardous
 RCRA (40CFR261) Evaluation: Non hazardous
 EPA/TSCA Listed Ingredients: Yes

Label Elements

Hazard Pictogram(s)

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

Signal Word: Not required

Hazard Statement(s): Not required

Precautionary Statement(s): None required

Other Hazards

Other hazards which do not result in classification:
 Burning produces obnoxious and toxic fumes. May be mildly irritating to eyes and skin. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. For more see **Toxicological Information**, Section 11.

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Section 3 - Composition / Information on Ingredients**Mixtures**

Chemical Name	CAS Number	Composition %
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>75

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

Section 4 - First Aid Measures**First Aid Measures****General information:**

If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

Eye Contact:

Remove any contact lenses.
Flush eyes with water for 15 minutes while holding eyelids open.
If irritation persists get medical attention.

Inhalation:

First Aid not anticipated to be needed. If irritation occurs, move to fresh air. If breathing has stopped, give artificial respiration and get medical attention immediately.

Ingestion:

If ingested get medical attention. Do not induce vomiting. Wash out mouth with water.
Get medical attention if nausea or stomach pains occur.

Skin Contact:

Wash thoroughly with soap and water, launder soiled clothing before reuse. Get medical attention if irritation occurs. High pressure injection under skin requires immediate medical attention.

Most important symptoms and effects, both acute and delayed:

Eyes – Mechanical Irritant, prolonged exposure may cause irritation. Under normal conditions of use, expect to cause no more than minor, if any, eye irritation based data from components.

Inhalation – No effects known. Not expected to be acutely toxic by inhalation. Breathing petroleum oil mist at concentrations in air that exceed the recommended exposure standard can cause respiratory irritation and discomfort.

Ingestion – Moderately irritating by ingestion. May cause nausea, irritation, or diarrhea. Possible aspiration hazard.

Skin – In contact with skin, product may act as a slight local irritant and allergen. Under normal conditions of use, no adverse health effects are expected upon short term contact. Prolonged or repeated contact may produce skin irritation and inflammation. Primary hazard associated with grease in high-pressure gun, necrosis could result.

Medical Conditions Generally Aggravated by Exposure: None Known.

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Section 5 - Fire Fighting Measures**Extinguishing Media**

- **Appropriate Extinguishing Media:**
Foam, Carbon Dioxide, Dry Chemical, & Sand
- **Inappropriate Extinguishing Media:**
DO NOT use water jet as an extinguisher, as this will spread the fire.
Use water spray to cool containers only.

Specific Hazards**Combustion Products:**

Carbon monoxide, carbon dioxide, products of incomplete hydrocarbon combustion.

Unusual Fire and Explosion Hazards:

Water may cause frothing. Will not flash spontaneously. May ignite if exposed to open flame.

Flash Point (C.O.C.): _____ 263° - 515° F.

Flammable Limits: _____ Lower: N/A, Upper: N/A

Advice for Firefighters**Protective actions during firefighting:**

Avoid breathing fire gases or vapors. Evacuate area.

Special protective equipment for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection.

Section 6 - Accidental Release Measures**Personal Protective Measures:**

No specific recommendations. For personal protection, see Section 8.

Environmental Precautions:

Steps to be taken in case material is released or spilled: Attempt to recover. Pick up small spills with shovel or spatula. Clean small residue amount with soap and water. Clean large amount with suitable oil absorbent. Keep material out of sewers and waterways. Advise appropriate authorities if large amount of product enters waterways or large land areas.

Waste Disposal Method:

Comply with all governmental regulations.

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Section 7 - Handling and Storage

Precautions for Safe Handling

Usage Precautions:

Accidental release or spills: attempt to recover. Pick up small spills with shovel or spatula.

Waste Disposal Method: Comply with all governmental regulations.

Advice on General Occupational Hygiene:

Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking or leaving work area.

Storage Precautions:

DO NOT store containers in direct sunlight; keep containers away from excessive heat, and in a cool dry place. Store below 140° F.

Keep away from strong acids and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Exposure Limits

Hazardous Ingredients	CAS Number	%	Exposure Limits: STEL 10 (Recommended)	
			OSHA PEL	ACGIH TLV
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>75	5mg/m ³	5 mg/m ³

NFPA Codes	
Health	1
Flammability	1
Reactivity	0

OSHA = Occupational Safety and Health Administration.

Exposure Controls

Appropriate Engineering Controls: Ventilation – Local Exhaust: Acceptable.

Protective Equipment:



Eye/Face Protection:

Eye-wear complying with an approved standard are a minimum level of protection. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. The following protection should be worn: Chemical splash goggles.

Hand Protection:

Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection: None expected to be required.

Other Skin and Body Protection:

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene Measures:

Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

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Section 9 - Physical and Chemical Properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

General Information:

Physical State:	Semi-solid Grease
Color:	Off White
Odor:	Slight - Mild Grease
Odor Threshold:	Not Available

Basic Physical and Chemical Properties:

pH:	Not Applicable
Melting Point:	Not Determined
Initial Boiling Point & Range:	270°-470° F
Flash Point (C.O.C.):	263° - 515° F
Evaporation Rate (Butyl Acetate = 1):	< 1
Flammability (solid, gas);	Non-Flammable
Upper/lower flammability or explosive limits:	Not Applicable
Vapor pressure:	Not Applicable
Vapor density:	Not Applicable
Relative density:	Not Applicable
Solubility(ies):	Soluble in alcohols and petroleum distillates Insoluble in Water
Partition coefficient:	Not Applicable
Auto-ignition temperature:	Not Applicable
Decomposition Temperature:	Not Applicable
Viscosity:	NLGI 1-2

Section 10 - Stability And Reactivity**Reactivity:**

There are no known reactivity hazards associated with this product.

Chemical Stability:

Material is chemically stable.

Change in Physical Appearance:

No potentially hazardous hazards known under normal conditions.
Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid:

Extreme heat. Avoid conditions that could generate an oil mist.

Materials to Avoid:

Strong oxidizing agents.

Hazardous Decomposition Products:

Oxides of Carbon when burned. Various hydrocarbons can evolve into other toxic gases, vapors or solid residue.

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Section 11 - Toxicological Information

Likely Routes of Exposure:

Eyes – Mechanical Irritant, prolonged exposure may cause irritation. Under normal conditions of use, expect to cause no more than minor, if any, eye irritation based data from components.

Inhalation – No effects known. Not expected to be acutely toxic by inhalation. Breathing petroleum oil mist at concentrations in air that exceed the recommended exposure standard can cause respiratory irritation and discomfort.

Ingestion – Moderately irritating by ingestion. May cause nausea, irritation, or diarrhea. Possible aspiration hazard.

Skin – In contact with skin, product may act as a slight local irritant and allergen. Under normal conditions of use, no adverse health effects are expected upon short term contact. Prolonged or repeated contact may produce skin irritation and inflammation. Primary hazard associated with grease in high-pressure gun, necrosis could result.

Toxicological Effects

Acute Toxicity - Oral (oral LD ₅₀) _____	Not Determined
Acute Toxicity - Dermal (dermal LD ₅₀) _____	Not Determined
Acute Toxicity - Inhalation (inhalation LC ₅₀) _____	Not Applicable
Corrosivity _____	Not Applicable
Sensitization _____	Not Applicable

Germ Cell Mutagenicity/Carcinogenicity

Carcinogenicity _____	Not classifiable as a human carcinogen.
IARC carcinogenicity _____	None of the ingredients are listed or exempt.

Section 12 - Ecological Information

Eco-toxicity:

Not regarded as dangerous for the environment. Biodegradable. Avoid release to the environment.

Section 13 - Disposal Considerations

Disposal should be in accordance with Federal, State and Local Regulations.

Section 14 - Transport Information

Material is non-hazardous – not regulated by DOT or IMDG.
Material is not dangerous or hazardous for transport by IATA.

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Section 15 - Regulatory Information

State Regulations

California Prop. 65 _____ No ingredients listed
 Massachusetts Right to Know _____ No ingredients listed
 New Jersey Right to Know _____ No ingredients listed
 Pennsylvania RTK Hazardous Substances _____ No ingredients listed
 United States inventory (TSCA) _____ All ingredients listed or exempt.

US Regulations

No ingredient in this product is subject to the reporting requirements of SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4)
 SARA 313 – not applicable unless otherwise noted by an asterisk (*) next to an ingredient in section 2 which directs the reader to a footnote at the bottom of this section stating this item is listed in the SARA section 313 inventory.
 Ingredients are proprietary. Potential hazards have been evaluated and pertinent information has been included in sections 3 and 7. Each proprietary material is held as a trade secret from DUALCO. OSHA non-hazardous or below 1%, if OSHA hazardous, and below 0.1% if potentially carcinogenic.

*These items are listed on the SARA Title III section 313 inventory.

International Regulations

Canada - WHMIS Classification _____ Not controlled. WHMIS: This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.
 Canada Domestic Substances List _____ All ingredients listed or exempt.
 Europe Inventory (EINECS) _____ All ingredients listed or exempt.
 Australia Inventory (AICS) _____ All ingredients listed or exempt.
 China Inventory (IECSC) _____ All ingredients listed or exempt.
 New Zealand Inventory of Chemicals (NZIoC) _____ All ingredients listed or exempt.
 Philippines Inventory (PICCS) _____ All ingredients listed or exempt.

Section 16 - Other Information

General information _____ Only trained personnel should use this material.

Issue date _____ 11 / 12 / 2015

Revision _____ 09 / 06 / 2023

End of SDS

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This document is prepared pursuant to the OSHA Hazard Communication Standard (29CFR1910.1200). The information herein is given in good faith, but no warranty, express or implied, is made. Consult Dualco Inc. for further information: 713-644-1164.