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# SDS

Safety Data Sheet

09-12-2023

## Valve Cleaner

### Section 1 - Product Identification

Product Name: Valve Cleaner  
Product Part Number: VC  
Product Type: Cleaner / Flush  
Chemical family: Mixture: Castor Oil

#### 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: Yellow Liquid / Slight Odor

#### Hazardous Ingredients:

None known under normal conditions.

#### Special Hazard Designations

DOT (49 CFR 172) Not regulated  
OSHA (29 CFR 1910.1200) Evaluation: Non hazardous  
RCRA (40 CFR 261) Evaluation: Non hazardous  
EPA/TSCA Listed Ingredients: None

#### 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)

None 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. If ingested get medical attention.  
For more see **Toxicological Information**, Section 11.

## Valve Cleaner

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

Chemical Name	Common Name	CAS Number	Composition %
Castor Oil	Castor Oil	8001-79-4	>80%

NFPA Codes	
Health	0
Flammability	1
Reactivity	0

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.

**Ingestion** – Moderately irritating by ingestion.

**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.

**Medical Conditions Generally Aggravated by Exposure:** None Known.

## Valve Cleaner

### 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.): \_\_\_\_\_ 540° 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.

## Valve Cleaner

### 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

Ingredient	CAS Number	%	Exposure Limits: STEL 10 (Recommended)	
			OSHA PEL	ACGIH TLV
Castor Oil*	8001-79-4	>80%	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

\*These Limits are for Castor Oil in Mist form

#### 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.

**Protective Clothing and Equipment:**

Neoprene Coated Gloves, if prolonged or repeated contact is unavoidable. Additional protective clothing and equipment as required to minimize exposure.

**Respiratory Protection:**

None expected to be required.

**Hygiene Measures:**

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

## Valve Cleaner

### 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: \_\_\_\_\_ Pourable liquid  
Color: \_\_\_\_\_ Yellow  
Odor: \_\_\_\_\_ Slight  
Odor Threshold: \_\_\_\_\_ Not Applicable

#### Basic Physical and Chemical Properties:

pH: \_\_\_\_\_ Not Applicable  
Melting Point: \_\_\_\_\_ None  
Boiling Point: \_\_\_\_\_ 595° C  
Flash Point (C.O.C.): \_\_\_\_\_ 540° F  
Evaporation Rate (Butyl Acetate = 1): \_\_\_\_\_ Not Applicable  
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  
Solubilities: \_\_\_\_\_ Soluble in alcohols  
\_\_\_\_\_ Insoluble in water and petroleum distillates  
Partition coefficient: \_\_\_\_\_ Not Applicable  
Auto-ignition temperature: \_\_\_\_\_ Not Applicable  
Decomposition Temperature: \_\_\_\_\_ Not Applicable  
Viscosity: \_\_\_\_\_ Pourable liquid  
Specific Gravity (H2O = 1): \_\_\_\_\_ 0.959

### 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 potential hazards known under normal conditions. Hazardous polymerization will not occur under normal conditions.

#### Conditions to Avoid:

Extreme heat.

#### Materials to Avoid:

Strong oxidizing agents.

#### Hazardous Decomposition Products:

Oxides of Carbon when burned.

## Valve Cleaner

### Section 11 - Toxicological Information

#### Likely Routes of Exposure:

**Eyes** – Yes, Mechanical Irritant, prolonged exposure may cause minor irritation, under normal conditions of use.

**Inhalation** – Not Likely.

**Ingestion** – Not Likely.

**Skin** – Yes, product may act as a slight local irritant and allergen. Under normal conditions of use, no adverse health effects are expected with short term contact.

#### Toxicological Effects

Acute Toxicity - Oral (oral LD <sub>50</sub> ) _____	>5000mg/Kg
Acute Toxicity - Dermal (dermal LD <sub>50</sub> ) _____	No Data
Acute Toxicity - Inhalation (inhalation LC <sub>50</sub> ) _____	No Data
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.
IARC Monographs _____	No
OSHA Regulation _____	No
NTP _____	No

### Section 12 - Ecological Information

#### Eco-toxicity:

Not regarded as hazardous for the environment. Biodegradable.

### 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.

## Valve Cleaner

### 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)

#### 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** \_\_\_\_\_ 06 / 16 / 2021

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**End of SDS**

#### Disclaimer

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