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# **SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** Marinus Valve Actuator Oil

**Product Use:** Use as valve actuator oil.

**Restrictions on Use:** Do Not Mix with Alcohol Based or Glycol Based Products

**Manufacturer:** Awsum Outcomes Inc.

Bay 5, 409 38<sup>th</sup> Ave. NE Calgary, Alberta T2E 6R9

Canada

Phone 1-587-353-2000

**Supplier:** Awsum Outcomes Inc.

Bay 5, 409 38th Ave. NE Calgary, Alberta T2E 6R9

Canada

Phone 1-587-353-2000

**Emergency Phone Number:** CANUTEC – 24 hr Emergency No. 1-613-996-6666

Business Hour Number 1-587-353-2000

(Monday through Friday 8:00am to 4:30pm MST)

**SDS Prepared By:** Awsum Outcomes Inc. Phone 1-587-353-2000

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## **SECTION II: HAZARDS IDENTIFICATION**

**GHS Classification:** Not classified

**GHS Label Element:** 

Signal word : No signal word

Hazard statements: No known significant effect or critical hazards.

Other hazards: None

Precautionary statements: **Prevention:** 

Not applicable Response:
Not applicable Disposal:
Not applicable Storage:
Not applicable

**Symptoms of Overexposure:** No specific data

# SECTION III: COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Ingredients	Concentration %	C.A.S. #
Bis (2-ethylhexyl) adipate	60 - 100 %	103-23-1

## **SECTION IV: FIRST AID MEASURES**

**Ingestion:** Wash out mouth with water. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

**Skin Contact**: Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

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symptoms occur.

**Inhalation:** Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms

occur.

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

No action shall be taken involving any personal risk or without

suitable training.

Most important symptoms and

**Protection of First-aiders:** 

effects, both acute and delayed:

Repeated skin exposure can produce local skin destruction or dermatitis. May cause mild eye irritation. No other known

significant effect or critical hazards.

**Notes to Physician:** Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

**Specific Treatments:** No specific treatment.

#### **SECTION V: FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Carbon dioxide foam, dry chemicals.

**Unsuitable extinguishing media:** Avoid spreading with water flooding.

**Hazardous combustion** 

products:

Oxides of carbon, sulphur and dense smoke.

**Special extinguishing methods:** Keep containers cool with water spray.

Special protective equipment

and precautions for firefighters:

When fighting fire, treat as petroleum product, wear full protective clothing, including NIOSH approved self-contained

breathing apparatus.

**Fire and explosion hazards:** Do not cut, weld, or pressurize empty container. Container may

explode in heat of fire.

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#### SECTION VI: ACCIDENTAL RELEASE MEASURES

**Personal protection:** Wear suitable protective equipment. Eliminate sources and or

potential sources of ignition.

**Environmental precautions:** Do not flush to sewers, streams or other bodies of water. For

disposal, see Section XIII.

**Methods for cleaning up:** Absorb on inert material such as sand, earth, vermiculite.

Sweep up and collect in a suitable container for disposal.

Observe government regulations

**Large spills:** Stop leak if without risk. Dike to contain spill. Pump excess

material into suitable container (metal drums, metal tanks, or

such).

## SECTION VII: HANDLING AND STORAGE

**Handling:** Avoid excess heat, formation of oil mist, breathing vapours and

mist from hot oil and prolonged or repeated contact with skin.

**Storage:** Store in a cool well-ventilated area. Keep away from heat spark

and open flame.

#### SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:** If used in a way that generates a mist, observe the limits for

mineral oil mist.

Component	Exposure Limit (ACGIH)	Exposure Limit (OSHA)	Immediately Dangerous to Life or Health (IDLH)
Mineral Oil Mist	5 mg/m <sup>3</sup> TWA-TLV 10 mg/m <sup>3</sup> STEL-TLV	5 mg/m <sup>3</sup> TWA-PEL Not Established STEL-PEL	2500 mg/m <sup>3</sup>

**Engineering controls:** For normal application, special ventilation is not necessary. If

the user's operation generates mist, use local ventilation to keep exposure to airborne contaminants below exposure limits.

**Respiratory protection:** None required under normal conditions of use. Use approved

respirator with dual organic vapour/mist and particulate

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cartridge if vapour concentration exceeds permissible exposure

limit.

**Eye protection:** Use chemical splash goggles if risk of splashing present.

**Skin protection:** Use rubber or plastic apron.

**Hand protection:** Use oil resistant gloves.

## SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Appearance: Amber

Odour: Mild petroleum odor

**Odour Threshold:** Not established at 20°C (68°F)

pH:

Pour Point:

Soiling Point:

Flash Point:

Evaporation Rate:

Upper Flammability Limit:

Lower Flammability Limit:

Not available

Not available

Not available

**Density:** 0.920 g/mL at 20°C (68°F) **Vapour Pressure:** <1.00 mm Hg at 20°C (68°F)

Vapour Density:Not availableSolubility in Water:Not availableAutoignition Temperature:Not availablePartitioning Coefficient:Not available

## **SECTION X: STABILITY AND REACTIVITY**

**Chemical Stability:** Stable

**Incompatibility:** Avoid contact with oxidizing agents, reducing agents, strong

acids, strong bases, alkali metals, alkaline earth metals and ignition source. Iron, zinc and aluminium avoided at high

temperatures

**Reactivity:** No reactivity.

Polymerization: Will not occur.

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**Decomposition Products:** 

Oxides of carbon, sulphur, phosphorous, nitrogen, and dense smoke. Methacrylates, aldehydes, hydrogen sulphide, alkyl mercaptans and sulphides will also result in case of thermal decomposition.

## SECTION XI: TOXICOLOGICAL INFORMATION

**Acute Toxicity:** 

Bis (2-ethylhexyl) adipate

(component):

Oral LD<sub>50</sub> (Rat) = 7392 mg/kg

**Effects of Acute and Chronic** 

**Exposure:** 

**Skin Contact:** Frequent or prolonged contact may irritate the skin and cause a

skin rash. Acute exposure is expected to cause only slight

irritation, if any.

**Skin Absorption:** No evidence of adverse effects from available information.

Prolonged contact may cause mild irritation.

**Eye Contact:** Slight irritation to eyes, but will not injure eye tissue.

**Inhalation:** No inhalation dangers at room temperature as there are no

vapours. If the product is misted, high concentrations of vapours and/or mist may cause respiratory tract irritation,

experienced as nasal discomfort and discharge.

**Ingestion:** No significant hazard. Minimal toxicity. Ingestion of large

amounts may cause laxative effects. If drawn into lungs from swallowing or vomiting, may cause chemical pneumonitis or

pulmonary edema.

**Irritancy:** Slight irritation to eyes. Frequent or prolonged contact may

irritate skin. If misted, inhalation of mist may cause irritation.

**Sensitization:** Repeated or prolonged contact is no expected to cause

sensitization, based on available data and known hazards.

**Carcinogenicity:** This product contains material that has NOT been listed as a

carcinogen or potential carcinogen by either the National Toxicology Program or the Occupational Safety and Health

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Administration. International Agency for Research on Cancer

(IARC) = classification 3

**Reproductive Toxicity:** No information is available and no adverse effects are

anticipated.

**Teratogenicity:** No information is available and no adverse effects are

anticipated.

**Embryo toxicity:** No information is available and no adverse effects are

anticipated.

**Mutagenicity:** No information is available and no adverse effects are

anticipated.

**Toxicologically Synergistic** 

**Products:** Not available.

## **SECTION XII: ECOLOGICAL INFORMATION**

**Aquatic Ecotoxicity:** 

Component	Result	Species	Exposure
Bis (2-ethylhexyl) adipate	Acute LC <sub>50</sub> 780 μg/L Fresh water	Fish – Fathead minnow	96 h
	A syste I C = 780 ug/I Erach water	Fish – Rainbow trout,	96 h
	Acute LC <sub>50</sub> 780 μg/L Fresh water	donaldson trout	
	Acute LC <sub>50</sub> 780 μg/L Fresh water	Fish – Bluegill	96 h
	Acute LC <sub>50</sub> 660 μg/L Fresh water	Aquatic invertebrates. Water flea	96 h
	Acute LC <sub>50</sub> 780 μg/L Fresh water	Aquatic plants – Green algae	96 h

**Environmental Fate:** Readily biodegradable.

**Environmental Effects:** Adverse ecological impact in not known or expected under

normal use.

**Bio-accumulative Potential:** 

Bis (2-ethylhexyl) adipate LogPow = 8.94 (component): BCF = 27.00

Potential = high

Mobility in Soil: Data is unavailable.

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## SECTION XIII: DISPOSAL CONSIDERATION

RCRA 40 CFR 261 Classification: Not Listed

US EPA Waste Number / Classification: Not Available

**Waste Disposal:** Dispose of waste material in compliance with all federal, state,

provincial and local regulations. Incinerate in a furnace or bury in an approved landfill where permitted under appropriate

federal, provincial and local regulations.

#### **SECTION XIV: TRANSPORT INFORMATION**

**Department of Transport:** Not regulated under DOT **TDG – Canada:** Not regulated under TDG

**DOT/TDG Proper Shipping** 

Name: None DOT/TDG Hazard Class: None

**UN Number:** None required

Packing Group: None

DOT/TDG Labels: Primary:

Subsidiary:

None required

None required

None required

None required

## **SECTION XV: REGULATORY INFORMATION**

**CPR Compliance:** This product has been classified in accordance with the hazard

criteria of *the Controlled Products Regulations* and the SDS contains all of the information required by those regulations.

**OSHA Hazard Communication** This product is not known to contain any of the carcinogens

Standards 29 CFR 1910.1200: required to be listed under OSHA Hazards Communication

Standards 29 CFR 1910.1200.

**WHMIS Classification:** This is not controlled product under WHMIS.

**CERCLA:** Not listed on CERCLA (40CFR 302.4). If this product is

accidentally spilled, it is not subject to special reporting under requirements of the Comprehensive Environmental Response and Liability Act. We recommend you also contact local

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authorities to determine if there may be other local reporting

requirements.

**SARA Title III Section 311/312:** Under the provisions of Title III, Section 311/312 of the

Superfund Amendments and Reauthorization Act, this product

is classified into the following hazard category: NONE

**SARA Title III Section 313:** This product does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels reestablished by SARA Title III, Section 313.

**RCRA:** Not listed on the RCRA (40 CFR 261.33) for hazardous waste.

**NPRI:** Contains chemicals listed in the **NPRI** under Canadian EPA.

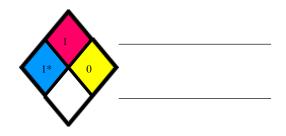
CAS# 103-23-1 Bis (2-ethylhexyladipate)

**Chemical Inventory:** Canada: The ingredients of this product are on the DSL.

USA: The ingredients of this product are on the TSCA.

### **SECTION XVI: OTHER INFORMATION**

#### **HMIS Information**



#### **Degree of Hazard**

4= Severe

3= Serious

2= Moderate

1= Slight

0= Minimal

\*=Chronic

#### **Revision Information**

**Prepared by:** Awsum Outcomes Inc.

**Phone**: 1-587-353-2000 **Effective Date:** 01 JAN 2019

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Awsum Outcomes Inc. (the "Company"), shall not be liable for any damages arising from the information contained on this data sheet howsoever—caused, if the product in question is not employed in a normal or foreseeable use or circumstances. The Company shall not be liable for any indirect—or consequential damages arising out of the use of the information contained on this data sheet howsoever caused.

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