

Safety Data Sheet



Zep Vehicle Care
A Unit of Zep, Inc.
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Section 1. Chemical Product and Company Identification

Product name ARMOR ALL PROFESSIONAL BODY SHIELD ORANGE
Product use Vehicle Protectant
Product code N237
Date of issue 1/1/2016 **Supersedes** 1/24/13

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Prepared By
Compliance Services
1259 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

*Hazard Determination System (HDS): Health, Flammability, Reactivity

WARNING!



COMBUSTIBLE LIQUID AND VAPOR. CAUSES IRRITATION
HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact. Inhalation. Ingestion.

- Eyes** Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.
- Skin** Causes skin irritation. Skin inflammation is characterized by itching, scaling, or reddening.
- Inhalation** Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression. Long-term exposure may cause headache, nausea or weakness.
- Ingestion** Harmful if swallowed. May cause mild gastric irritation, abdominal spasms, nausea and faintness.

Chronic effects Causes damage to the following organs: skin, eyes.

Carcinogenicity Classification Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
2-butoxyethanol	-	3	-	A3	-	-
propan-2-ol	-	3	-	A4	-	-

Additional information: See toxicological information (Section 11)

Section 3. Composition/Information on Ingredients

Name	CAS number	%
decamethylcyclopentasiloxane	541-02-6	5-10
Butoxyethanol; 2-butoxyethanol	111-76-2	5-10
Isopropyl alcohol	67-63-0	1-5

Section 4. First Aid Measures

- Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.
- Skin Contact** Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.
- Inhalation** Move exposed person to fresh air. If irritation persists, get medical attention.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



Flash Point Closed cup: 43.3°C (109.9°F)
[Tagliabue.]

Flammable Limits Not available.

Flammability COMBUSTIBLE.

Fire hazard Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. May emit toxic fumes under fire conditions.

Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog). Fire-fighters should wear appropriate protective equipment.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see Section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Do not ingest. Use only with adequate ventilation. Wash thoroughly after handling. Do not reuse container.

Storage Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

<u>Occupational exposure limits</u>		<u>TWA (8 hours)</u>			<u>STEL (15 mins)</u>			<u>Ceiling</u>			<u>Notations</u>
<u>Ingredient</u>	<u>List name</u>	<u>ppm</u>	<u>mg/ m³</u>	<u>Other</u>	<u>ppm</u>	<u>mg/ m³</u>	<u>Other</u>	<u>ppm</u>	<u>mg/ m³</u>	<u>Other</u>	
Butoxyethanol; 2-butoxyethanol	US ACGIH 3/2012	20	-	-	-	-	-	-	-	-	[3]
	AB 4/2009	20	97	-	-	-	-	-	-	-	
	BC 4/2012	20	-	-	-	-	-	-	-	-	
	ON 1/2013	20	-	-	-	-	-	-	-	-	
	QC 12/2012	20	97	-	-	-	-	-	-	-	
Isopropyl alcohol	US ACGIH 3/2012	200	-	-	400	-	-	-	-	-	[3]
	AB 4/2009	200	492	-	400	984	-	-	-	-	
	BC 4/2012	200	-	-	400	-	-	-	-	-	
	ON 1/2013	200	-	-	400	-	-	-	-	-	
	QC 12/2012	400	983	-	500	1230	-	-	-	-	

[3]Skin sensitization

Personal Protective Equipment (PPE)

Eyes Safety glasses.

Body Wear appropriate protective clothing to prevent skin contact. Recommended:
Rubber gloves. Nitrile gloves. Neoprene gloves.



Respiratory Avoid breathing vapors, spray or mists. Use with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Section 9. Physical and Chemical Properties

Physical State Liquid. [Clear.]

pH 5.5 to 6.5

Boiling Point 100°C (212°F)

Specific Gravity 0.97

Solubility Easily soluble in the following materials: cold water and hot water.

Color Orange. [Dark]

Odor Pleasant.

Vapor Pressure Not available.

Vapor Density Not available.

Evaporation Rate 1 (Water = 1)

VOC (Consumer) 10.1 % (w/w) 0.815 lbs/gal (97.6 g/l)

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
Hazardous Polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂)

Section 11. Toxicological Information**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
decamethylcyclopentasiloxane Butoxyethanol; 2-butoxyethanol	LD50 Oral	Rat	>24134 mg/kg	-
	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	-
Isopropyl alcohol	LD50 Oral	Rat	250 mg/kg	-
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.


Section 12. Ecological Information**Environmental Effects** Not available.**Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Butoxyethanol; 2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
Isopropyl alcohol	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1400000 µg/l	Fish - Gambusia affinis	96 hours

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Classification: Non-regulated waste
Origin: RCRA waste.**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not regulated.	-	-	-	
TDG Classification	Not regulated.	-	-	-	
IMDG Class	UN1993	Flammable liquid, n.o.s. (Isopropyl Alcohol)	3	III	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information**United States****U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Product name

Butoxyethanol; 2-butoxyethanol
Isopropyl alcohol

Clean Water Act (CWA) 307: chloromethane

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

TSCA 8(a) PAIR: decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane

TSCA 8(a) CDR Exempt/Partial exemption: All components are listed or exempted.

United States inventory (TSCA 8b): All components are listed or exempted.

Canada

WHMIS (Canada) : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Class D-1A: Material causing immediate and serious toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).



Canada inventory : All components are listed or exempted.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.*