

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration  
**MATERIAL SAFETY DATA SHEET**

(Prepared According to 29 CFR 1910.1200)

---

**SECTION 1 IDENTIFICATION**

Product Name: **FORMULA 493555 ZENACOIL**  
Manufacturer's Name: ZENEX International  
Manufacturer's Address: 7777 First Place, Cleveland Ohio 44146  
Manufacturer's Phone Number: (440) 232-4155  
Emergency Phone Number: 1-800-535-5053  
Proper Shipping Name: Consumer Commodity, ORM-D  
Effective Date: 10-15-01

---

**SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS**

Chemical Name:	CAS No.:	TLV:
2-Butoxyethanol	111-76-2	20ppm (skin)
Anionic surfactant	Mixture	Not established
Isobutane	75-28-5	800ppm
Chelating agent	64-02-8	Not established

---

**SECTION 3 PHYSICAL DATA**

Boiling Point:	<0 to 212°F	Specific Gravity(H <sub>2</sub> O=1):	0.80 ± 0.05
Solubility in Water:	Soluble	Evaporation Rate:	Slower than Ether
Vapor Density(Air=1):	Heavier than air	pH:	12.75 ± 0.5

---

**SECTION 4 FIRE AND EXPLOSION HAZARD DATA**

Flash Point: Non-Flammable  
Flash Point(Propellant): <0°F  
Flammable Limits(Propellant): LEL: 1.9 UEL: 8.5  
Extinguishing Media: Use water fog, dry chemical or carbon dioxide.  
Special Fire Fighting Procedures: Aerosol cans may rupture when heated.  
Unusual Fire and Explosion Hazards: Heated cans may burst.

---

**SECTION 5 REACTIVITY DATA**

Stability: Unstable \_\_\_\_\_  
Stable  X   
Incompatability (Materials to Avoid): None known.  
Conditions to Avoid: High temperatures.  
Hazardous Decomposition or Byproducts: In fire, will decompose to carbon dioxide, carbon monoxide  
Hazardous Polymerization: Will not occur

---

## **SECTION 6 STORAGE AND HANDLING INFORMATION**

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively,  
use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F

KEEP AWAY FROM CHILDREN

FOR USE BY TRAINED PERSONNEL ONLY

KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY

KEEP CONTAINER CLOSED DURING STORAGE

---

## **SECTION 7 HEALTH HAZARDS AND FIRST AID**

**Effects of Overexposure:**

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.

EYES: Eye irritant. Will cause redness and burning sensation.

INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness,  
nausea, and loss of coordination. Extreme overexposure may result in  
unconsciousness and possibly death.

INGESTION: Aspiration hazard if swallowed.

**First Aid Procedures:**

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get  
medical attention. Remove contaminated clothing and launder before reuse.

EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower  
eyelids occasionally. Seek medical attention.

INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.

INGESTION: DO NOT induce vomiting. Seek medical attention immediately.

Note: Never give anything by mouth to an unconscious or convulsing victim.

Keep person warm and quiet.

---

## **SECTION 8 SPECIAL PROTECTION INFORMATION**

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.

Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.

Protective Gloves: None required if spraying.

Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we  
recommend the use of safety glasses or chemical splash goggles.

Other Protective Equipment: Long sleeves and long pants.

Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

---

## **SECTION 9 SPILL OR LEAK PROCEDURE**

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as  
hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

---

## **SECTION 10 REGULATORY INFORMATION**

SARA Title III, Section 313 Components:

2-Butoxyethanol

111-76-2

---

This information pertains to this product as currently formulated, and is based on the information available at this  
time. Addition of reducers or other additives to this product may substantially alter the composition. We make no  
warranties, express or implied, and assume no liability in connection with any use of this information. 493555