

Safety Data Sheet  
zMAX All Purpose Cleaner

---

**Section 1: Product and Company Identification**

Product Name: zMAX All Purpose Cleaner

Product Code: 88501

MANUFACTURER'S NAME: OIL-CHEM RESEARCH CORP.

ADDRESS 5283 HIGHWAY 49 S  
HARRISBURG, NC 28075 USA

EMERGENCY PHONE 888-314-6171

INFORMATION PHONE 888-645-1101 Business Hours

TRANSPORT/SPILL LEAK 800-424-9300 CHEMTREC

Product Use: All Purpose Cleaner (For industrial and Institutional Use Only)

---

**Section 2: Hazards Identification**

**GHS CLASSIFICATION**

Serious eye damage/eye irritation: Category 2A  
Flammable aerosols: Category 1  
Gases under pressure: Liquefied gas

**GHS CLASSIFICATION**

Signal word:

Symbols:

Danger



**Hazard Statements**

Physical hazards:

Causes serious eye irritation

Physical hazards:

Extremely flammable aerosol. Contains gas under pressure; may explode if heated

**Precautionary Statements**

Prevention:

Wash hands and any exposed skin thoroughly after handling

Wash eye / face protection

Keep away from heat/sparks/open flames/hot surfaces - no smoking

Do not spray on an open flame or other ignition source

Pressurized container. Do not pierce or burn, even after use.

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal

Response: Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present easy to do. Continue rinsing. If eye irritation persists, get medical attention.

Specific Treatment

See Safety Data Sheet Section 4: "First Aid Measures" for additional information

Storage

Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C). Store in well-ventilated place.

Disposal

Not applicable.

Hazards not otherwise classified:

Not applicable.

Other information:

May be harmful if swallowed.

Causes mild skin irritation

Inhalation of vapors or mist may cause respiratory irritation.

Keep out of the reach of children.

---

**Section 3: Composition / Information on Ingredients**

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Butoxydiglycol	112-34-5	5-10
Butane	106-97-8	3-7
Isopropyl Alcohol	67-63-0	1-5
C12-14 Sec-Pareth-9	84133-50-6	1-5
Propane	74-98-6	0.1-1
Tetrapotassium Pyrophosphate	7320-34-5	0.1-1
Fragrance	PROPRIETARY	<0.1
Ammonium Hydroxide	1336-21-6	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

---

## Section 4: First Aid Measures

**EYE CONTACT:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

**SKIN CONTACT:** Wash with soap and water. If skin irritation occurs, get medical attention.

**INHALATION:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.

**INGESTION:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

**Notes to Physicians:** Treat symptomatically.

---

## Section 5: Fire Fighting Measures

**Suitable extinguishing media:** Water spray (fog). Foam.

**Specific hazards arising from the chemical:** Extremely flammable aerosol. Exposure to high temperature may cause containers to burst. Bursting aerosol containers may be propelled from fire at high speed.

**Hazardous Combustion Products:** May include Carbon Monoxide, Carbon Dioxide and other toxic gases or vapors.

**Protection equipment and precautions for firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

---

## Section 6: Accidental Release Measures

**Personal precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.

**Methods for clean-up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

---

## Section 7: Handling and Storage

**Advice for safe handling:** Handle in accordance with good industrial hygiene and safety practice. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat/spark/open flames/hot surfaces - No smoking. Wash thoroughly after handling.

**Storage conditions:** NFPA 30B Level 1 Aerosol. Do not store in direct sunlight or above 122°F (50°C). Exposure to high temperature may cause containers to burst. Keep out of the reach of children.

**Suggested shelf life:** Minimum of 2 years from date of manufacture.

## Section 8: Exposure Control / Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Butoxydiglycol 112-34-5	TWA: 10ppm inhalable fraction and vapor	-	-
Butane 106-97-8	STEL: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA:980 mg/m <sup>3</sup> (vacated) TWA: 400 mg/m <sup>3</sup> (vacated) TWA:980 mg/m <sup>3</sup> (vacated) STEL:500 ppm (vacated) STEL:1225 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
Propane 74-98-6	See Appendix F Minimal Oxygen Content	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>

### Engineering controls:

Provide good general ventilation.

If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

### Personal protective equipment:

Wear splash goggles

### Eye/face protection

Not required with expected use

### Skin / body protection

Not required with expected use

### Respiratory protection

If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for these use-conditions and chemicals in Section 3 should be considered.

### General hygiene considerations:

Wash hands and any exposed skin thoroughly after handling.

See 29 CFR 1910.132-138 for further guidance.

## Section 9: Physical and Chemical Properties

<b>Appearance/Physical State:</b>	Aerosol
<b>Color:</b>	Colorless
<b>Odor:</b>	Pleasant
<b>pH:</b>	10.5-11.5
<b>Melting Point / Freezing Point:</b>	No information available
<b>Boiling Point / Boiling Range:</b>	100°C / 212°F *(Product without propellant)
<b>Flash Point:</b>	<-18°C / <0°F (Propellant-estimated)
<b>Evaporation Rate:</b>	<1
<b>Flammability (solid,gas):</b>	No information available
<b>Upper Flammability Limit:</b>	No information available
<b>Lower Flammability Limit:</b>	No information available
<b>Vapor Pressure:</b>	No information available
<b>Vapor Density:</b>	No information available
<b>Specific Gravity:</b>	1.0 (Product without propellant)
<b>Solubility(ies):</b>	No information available
<b>Partition Coefficient:</b>	No information available
<b>Autoignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Viscosity:</b>	No information available

## Section 10: Stability and Reactivity

**Reactivity:** This material is considered to be non-reactive under normal conditions of use.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Not expected to occur with normal handling and storage.

**Conditions to avoid:** Extremes of temperature and direct sunlight.

**Incompatible materials:** Strong oxidizing agents. Strong acids.

**Hazardous decomposition products:** May include carbon monoxide, carbon dioxide (CO<sub>2</sub>) and other toxic gases or vapors.

## Section 11: Toxicological Information

**Likely routes of exposure:** Eyes, skin, ingestion, inhalation.

**Symptoms of exposure:**

**-Eye contact:** Pain, redness, swelling of the conjunctiva and blurred vision

**-Skin contact:** Drying of the skin

**-Inhalation:** Nasal discomfort and coughing

**-Ingestion:** Pain, nausea, vomiting and diarrhea.

**Immediate, delayed, chronic effects:** Product information: Data not available or insufficient for classification.

**Target Organ Effects:** Central nervous system. -Eyes. Respiratory System. -Skin

### Numerical measures of toxicity:

The following acute toxicity estimates (ATE) are calculated based on the GHS document. Data not available or insufficient for classification.

ATEmix (oral): 16682 mg/kg  
ATEmix (dermal): 21854 mg/kg  
ATEmix (inhalation gas): 5243774 mg/l  
ATEmix (inhalation dust/mist): 87.4 mg/l

Component Acute Toxicity Information			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	Not Available	Not Available
diethylene monobutyl ether 112-34-5	= 5660 mg/kg ( Rat)	= 2700 mg/kg ( Rat)	Not Available
Butane 106-97-8	Not Available	Not Available	= 658 g/m <sup>3</sup> ( Rat) 4 h
Isopropyl Alcohol 67-63-0	= 1870 mg/kg ( Rat)	= 4059 mg/kg ( Rabbit)	= 72600 g/m <sup>3</sup> ( Rat) 4 h
C12-14 Sec-Pareth-9 84133-50-6	= 2100 mg/kg ( Rat)	Not Available	Not Available

**Carcinogenicity:** No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

## Section 12: Ecological Information

### Exotoxicity:

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
diethylene monobutyl ether 112-34-5	100: 96 h <i>Desmodesmus</i> mg/L EC50	1300: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	Not Available	100: 48 h <i>Daphnia magna</i> mg/L EC50
Isopropyl Alcohol 67-63-0	1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1400000: 96 h <i>Lepomis macrochirus</i> ug/L LC50	Not Available	13299: 48 h <i>Daphnia magna</i> mg/L EC50
C12-14 Sec-Pareth-9 84133-50-6	Not Available	3.2: 96 h <i>Pimephales promelas</i> mg/L LC50	Not Available	3.2: 48 h water flea mg/L EC50
Tetrapotassium Pyrophosphate 7320-34-5	Not Available	100: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50	Not Available	100: 48 h water flea mg/L EC50
Ammonium Hydroxide 1336-21-6	Not Available	82: 96 h <i>Pimephales promelas</i> mg/L LC50	Not Available	0.66: 48 h water flea mg/L EC50 0.66: 48 h <i>Daphnia pulex</i> mg/L EC50

**Persistence and degradability:** No information available.

**Bioaccumulation:** No information available.

**Other adverse effects:** No information available.

---

## Section 13: Disposal Considerations

**Dispose of wastes:** Dispose of in accordance with federal, state and local regulations.  
**Contaminated packaging:** Pressurized container. Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

---

## Section 14: Transport Information

**DOT:**  
**UN/ID No:** UN1950  
**Proper shipping name:** Aerosols  
**Hazard class:** 2.1  
**Special provisions:** This product meets the exception requirements of section 49 CFR 173.306 as a limited quantity and may be shipped as a limited quantity. Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

**IMDG:**  
**UN/ID No:** UN1950  
**Proper shipping name:** Aerosols  
**Hazard class:** 2.1  
**Additional information:** Limited quantity

---

## Section 15: Regulatory Information

**TSCA status:** (Toxic Substance Control Act Section 8(b) Inventory)  
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**SARA 313:** This product contains the following listed substances:  
CAS No 112-34-5 applies to R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-OR', where n=1, 2 or 3, R=Alkyl C7 or less, or R=Phenyl or Alkyl substituted phenyl, R'=H or Alkyl C7 or less, or OR' consisting of Carboxylic acid ester, Sulfate, Phosphate, Nitrate, or Sulfonate  
Chemical Category N230  
1.0

**SARA 311/312 Hazard Categories:**  
**Acute health hazard:** Yes  
**Chronic health hazard:** No  
**Fire hazard:** No  
**Sudden release of pressure hazard:** No  
**Reactive hazard:** No

**California Proposition 65:** This product is not subject to warning requirements under California Proposition 65.

---

## Section 16: Other Information

**NFPA:** Health hazards: 2 Flammability: 1 Instability: 0 Special: N/A  
**HMIS:** Health hazards: 2 Flammability: 2 Physical Hazards: 2

Date revised: 2019-11-22  
Reasons for revision: Sections, 3, 8, 11, 12

### 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 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.

End of Safety Data Sheet