



Safety Data Sheet

Active Wash Laundry Powder - Enzyme Enhanced

SECTION 1. IDENTIFICATION

Product Identifier Active Wash Laundry Powder - Enzyme Enhanced
Other Means of Identification Defunkify Active Wash Laundry Detergent Powder, Defunkify Active Wash Laundry Detergent Packets
Product Family Home & Institutional Cleaning
Recommended Use Laundry.
Restrictions on Use None known
Manufactured for: Dune Sciences, Inc. 350 W.5th Avenue, Eugene, OR 97401, Ph. 541-359-1959
Emergency Phone No.: CHEMTREC, 800-424-9300, Available 24 hours.
SDS No.: 18-040

SECTION 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

This product is classified under 29CFR 1910.1200(d) as follows:

Classification

Acute toxicity (Oral) - Category 4; Specific target organ toxicity (single exposure) - Category 3; Aquatic Acute – Category 2; Aquatic Chronic – Category 3; Eye Irritation – Category 2A; Skin Corrosion/Irritation – Category 2.

Label Elements



Signal Word: Danger

Hazard Statements

H302 – Harmful if swallowed.
H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation.
H401 – Toxic to aquatic life.
H412 – Harmful to aquatic life with long lasting effects.

Precautionary Statements

P264 – Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 – Do not eat, drink, or smoke when using this product.
P273 – Avoid release to the environment.
P280 – Wear protective gloves, protective clothing, and eye protection.
P301+P312 – IF SWALLOWED: Rinse mouth with plenty of water. Get medical advice/attention.
P302+P352+P362+P332+P313 – IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If irritation continues get medical advice/attention.
P305+P351+P338+P313 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do. Continue rinsing. Get medical advice/attention.

P332 +P313 – If skin irritation occurs: Get medical advice/attention.

P501 – Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Proprietary Non-Hazardous Ingredients		35 to 48	
Sodium carbonate	497-19-8	20 to 35	
Oxirane, 2-methyl-, polymer with oxirane, mono(2-ethylhexyl) ether	64366-70-7	2 to 7	
Dodecylbenzenesulfonate, sodium salt	68081-81-2	2 to 7	
Carbonic acid, disodium salt, compd. with hydrogen peroxide (2:3)	15630-89-4	1 to 4	
Sodium silicate	1344-09-8	1 to 4	
Sodium Metasilicate	6834-92-0	1 to 5	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

While inhalation of product dust is unlikely, move to fresh air away from dust.

Skin Contact

Rinse with water. Remove contaminated clothing and shoes.

Eye Contact

Promptly flush with large amounts of water for at least 15 minutes. Contact a physician if redness or irritation persists.

Ingestion

Do not induce vomiting. Drink 4-8 ounces of water or milk immediately. Contact a poison control centre or physician.

First-aid Comments

Treat symptomatically.

Most Important Symptoms and Effects, Acute and Delayed

None known.

Immediate Medical Attention and Special

Treatment Target Organs

Eyes, lungs, skin.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation.

Not known to generate any hazardous decomposition products in a fire.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Wear appropriate personal protective equipment.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

Other Information

None known.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Use as directed on product label.

Conditions for Safe Storage

No special requirements.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

Not applicable.

Individual Protection Measures

Eye/Face Protection

Goggles or other protective eye wear may be worn for protection.

Skin Protection

Gloves may be worn for protection.

No special protection required if used according to directions.

Respiratory Protection

None required under normal conditions. General ventilation required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White crystalline powder. Particle Size: Not applicable
Odour	Soapy
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not available

Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	Not applicable
Solubility	Very soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not applicable (kinematic); Not applicable (dynamic)
Other Information	
Physical State	Solid
Molecular Formula	Not available
Molecular Weight	Not available
Bulk Density	Not applicable
Surface Tension	Not applicable
Critical Temperature	Not applicable
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not applicable
Saturated Vapour Concentration	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

None known.

Incompatible Materials

None known.

Hazardous Decomposition Products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Chemical Name	CAS No.	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)
Proprietary Non-Hazardous Ingredients		-	-	-

Sodium carbonate	497-19-8	2800 mg/kg	>2000 mg/kg	2.3 g/m ³
Oxirane, 2-methyl-, polymer with oxirane, mono(2-ethylhexyl) ether	64366-70-7	>2000 mg/kg	>2000 mg/kg	N/A
Dodecylbenzenesulfonate, sodium salt	68081-81-2	>5000 mg/kg	>5000 mg/kg	N/A
Carbonic acid, disodium salt, compd. With hydrogen peroxide (2:3)	15630-89-4	1034 mg/kg	>2000 mg/kg	>4580 mg/m ³
Sodium silicate	1344-09-8	3400 mg/kg	>5000 mg/kg	>2.06 g/m ³
Sodium Metasilicate	6834-92-0	1152 – 1349 mg/kg	>5000 mg/kg	>2.06 g/m ³

Skin Corrosion/Irritation

Causes skin irritation

Serious Eye Damage/Irritation

Causes serious eye irritation.

STOT (Specific Target Organ Toxicity) - Single

Exposure Inhalation

May cause irritation to respiratory system.

Skin Absorption

Not known to be absorbed by the skin.

Ingestion

Harmful if swallowed.

Aspiration Hazard

Inhalation may result in irritation.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Harmful if swallowed.

Respiratory and/or Skin Sensitization

May be harmful if inhaled.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity Development of Offspring Not known to harm the unborn child.

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

Effects on or via Lactation

Not known to cause effects on or via lactation.

Germ Cell Mutagenicity

Not known to be a mutagen.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No known long lasting impact on the environment.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Carbonic acid, disodium salt, compd. with hydrogen peroxide (2:3)	~ 70.7 mg/L (Pimephales promelas (fathead minnow); 48-hour; fresh water; semi-static)	~ 4.9 mg/L (Daphnia pulex (water flea); 48-hour; fresh water; semi-static)		
SODIUM SILICATE		~ 1108 mg/L (Daphnia magna (water flea); 48-hour)		

Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

This product and its degradation products are not known to bioaccumulate.

Mobility in Soil

No information was located.

Other Adverse Effects

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Recycle and reuse product, if possible.

SECTION 14. TRANSPORT INFORMATION

Not regulated for transport in accordance with US DOT Regulations.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC and, as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.