

Safety Data Sheet

Material Name: DWR 95 PLUS (selling under the trade name enpurex®)

*** Section 1 - Product and Company Identification ***

Manufacturer Information

Bubbles & Beyond GmbH
Karl-Heine-Str. 99
D-04229 Leipzig
Germany

Phone: +49(0)3 41 - 319 38 10

Emergency # +49(0)176 - 621 45 742 or +49(0)176 - 621 45 743

Responsible Party Distributing the Product in the United States

Magnum Research Corporation
2880 Bergey Road, Suite W
Hatfield, PA 19440

Phone: 877-236-2468

Fax: 631-885-8945

*** Section 2 - Hazards Identification ***

GHS Classification:

Eye irritation - Category 2A

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Warning

Hazard Statements

Causes serious eye irritation.

Precautionary Statements

Prevention

Wash thoroughly after handling.

Wear eye protection/face protection.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

CAS #	Component	Percent
141-97-9	Ethyl acetoacetate	25-30
Not Available	Nonionic surfactants	10-15
123-42-2	Diacetone alcohol	10-15
Not Available	Anionic surfactants	1-5
60-12-8	Phenethyl alcohol	1-5

Safety Data Sheet

Material Name: DWR 95 PLUS (selling under the trade name enpurex®)

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Remove contact lenses, keep eyelids open and rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

First Aid: Skin

Remove any clothing soiled by the product. In case of skin contact, wash off with soap and plenty of water. Do not use solvents or dilutions.

First Aid: Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

First Aid: Inhalation

If directly inhaled, remove to fresh air. If breathing is difficult, give oxygen. Consult a physician.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Product is not explosive. However a formation of explosive vapor/air mixtures may occur.

Hazardous Combustion Products

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

Extinguishing Media

Water (water mist), carbon dioxide (CO₂), fire extinguishing powder, alcohol resistant foam.

Unsuitable Extinguishing Media

Full water jet.

Fire Fighting Equipment/Instructions

If necessary wear self-contained breathing apparatus for fire fighting.

*** Section 6 - Accidental Release Measures ***

Recovery and Neutralization

Stop the flow of material, if this is without risk.

Materials and Methods for Clean-Up

Absorb large amounts with liquid-binding material (sand, silica, universal binders), store in closed containers.

Absorb small amounts with absorbent material (cloth, fleece). Treat the absorbed material according to Section 13, disposal. Finally clean contaminated surfaces and objects thoroughly with water.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protective equipment.

Environmental Precautions

Do not allow product to enter drains. Inform respective authorities in case product reaches rivers, lakes or sewage systems.

Prevention of Secondary Hazards

None.

Safety Data Sheet

Material Name: DWR 95 PLUS (selling under the trade name enpurex®)

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid contact with eyes and skin. Use only in adequately ventilated areas. Wear protective clothing. Do not smoke, eat or drink while working. Keep in original container and keep container tightly closed when product is not in use.

Storage Procedures

Store at: 5-40 °C (41-104 °F). Protect from freezing. Protect against heat. Store in original container only. Follow the instructions on the label. Do not expose to heat and direct sunlight. Keep container tightly closed when not in use. Store in a cool and well-ventilated location. Do not expose to oxidizing agents and strongly acid or alkaline materials.

Incompatibilities

Keep away from highly acid or alkaline substances as well as oxidizing agents to avoid exothermic reactions.

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Diacetone alcohol (123-42-2)

ACGIH: 50 ppm TWA

OSHA: 50 ppm TWA; 240 mg/m³ TWA

NIOSH: 50 ppm TWA; 240 mg/m³ TWA

Engineering Measures

Normal ventilation is usually sufficient. Use ventilation as required to control vapor concentrations.

Personal Protective Equipment: Respiratory

None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: Hands

Recommended gloves: Nitrile rubber, neoprene, material thickness > 0,4 mm, break through time > 480 minutes.
Unsuitable material: PVC (polyvinylchloride), PVA (polyvinylalcohol).

Personal Protective Equipment: Eyes

Wear goggles or face shield.

Personal Protective Equipment: Skin and Body

Use of protective coveralls and long sleeves is recommended.

Safety Data Sheet

Material Name: DWR 95 PLUS (selling under the trade name enpurex®)

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Colorless, slightly opalescent	Odor:	Fruity
Physical State:	Liquid	pH:	5.5
Vapor Pressure:	4.2 kPa	Vapor Density:	ND
Boiling Point:	ND	Melting Point:	ND
Solubility (H2O):	Emulsifies	Specific Gravity:	1.0019 g/cm3
Evaporation Rate:	ND	VOC:	ND
Octanol/H2O Coeff.:	ND	Flash Point:	>203°F
Flash Point Method:	NA	Upper Flammability Limit (UFL):	ND
Lower Flammability Limit (LFL):	ND	Burning Rate:	ND
Auto Ignition:	842°F		

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

Keep away from highly acid or alkaline substances as well as oxidizing agents to avoid exothermic reactions.

Hazardous Decomposition Products

At high temperatures, hazardous decomposition products like carbon oxides may arise.

*** Section 11 - Toxicological Information ***

Acute Toxicity

Component Analysis - LD50/LC50

Ethyl acetoacetate (141-97-9)

Oral LD50 Rat 3980 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

Diacetone alcohol (123-42-2)

Oral LD50 Rat 4 g/kg; Dermal LD50 Rabbit 13500 mg/kg

Phenethyl alcohol (60-12-8)

Oral LD50 Rat 1790 mg/kg; Dermal LD50 Rabbit 790 µL/kg; Inhalation LC50 Rat >1.38 mg/L 4 h

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Direct, long-term contact can cause mild irritation to skin.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Causes serious eye irritation.

Safety Data Sheet

Material Name: DWR 95 PLUS (selling under the trade name enpurex®)

Potential Health Effects: Ingestion

Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

Inhalation of high concentrations of vapor can cause irritation to the respiratory tract.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any single exposure specific target organ effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any repeat exposure specific target organ effects.

Aspiration Respiratory Organs Hazard

This product is not reported to have aspiration hazard effects.

* * * Section 12 - Ecological Information * * *
--

Ecotoxicity

A: General Product Information

This product is not reported to have any ecotoxicity effects.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethyl acetoacetate (141-97-9)

Test & Species	Conditions
96 Hr LC50 Pimephales promelas	298 mg/L
96 Hr LC50 Oncorhynchus mykiss	290 mg/L
96 Hr LC50 Lepomis macrochirus	307 mg/L
72 Hr EC50 Desmodesmus subspicatus	>500 mg/L
24 Hr EC50 Daphnia magna	790 mg/L [Static]
48 Hr EC50 Daphnia magna	646 mg/L

Diacetone alcohol (123-42-2)

Test & Species	Conditions
96 Hr LC50 Lepomis macrochirus	420 mg/L [static]
96 Hr LC50 Lepomis macrochirus	420 mg/L
24 Hr EC50 Daphnia magna	8750 mg/L

Phenethyl alcohol (60-12-8)

Test & Species	Conditions
----------------	------------

Safety Data Sheet

Material Name: DWR 95 PLUS (selling under the trade name enpurex®)

96 Hr LC50 Leuciscus idus	220-460 mg/L [static]
72 Hr EC50 Desmodesmus subspicatus	490 mg/L
48 Hr EC50 Daphnia magna	287.17 mg/L

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international/regulations.

*** Section 14 - Transportation Information ***

DOT/TDG Information

Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

Regulatory Information

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Ethyl acetoacetate	141-97-9	No	Yes	No	No	Yes	No
Diacetone alcohol	123-42-2	Yes	Yes	Yes	Yes	Yes	No

Safety Data Sheet

Material Name: DWR 95 PLUS (selling under the trade name enpurex®)

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Diacetone alcohol	123-42-2	1 %
Phenethyl alcohol	60-12-8	1 %

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Ethyl acetoacetate	141-97-9	Yes	DSL	EINECS
Diacetone alcohol	123-42-2	Yes	DSL	EINECS
Phenethyl alcohol	60-12-8	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

HMIS Ratings: Health: 1 Fire: 1 Physical Hazards: 0 Protective Equipment: D

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Other Information

The data in this safety data sheet is based on data considered to be accurate as of the date of revision. The information presented should be used as a guideline for the safe handling, storage, processing, transport and disposal of the product presented in this safety data sheet. The details named are not transferable to other products. If the indicated product of this safety data sheet is mingled, mixed or processed with other materials the details of this safety data sheet cannot be transferred. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

End of Sheet