

Wetting Agent A

Safety Data Sheet

SECTION 1: Identification

1.1. Product identifier

Product name : Wetting Agent A

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemicals, manufacture of substances

1.3. Supplier

Zaclon LLC
2981 Independence Road
Cleveland, OH 44115
T 800-356-7327

1.4. Emergency telephone number

Emergency number : Chemtrec 1 800 424 9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Acute toxicity (oral) Category 4	H302
Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation Category 2A	H319
Reproductive toxicity Category 2	H361

2.2. GHS Label elements, including precautionary statements

GHS US/CAN labeling

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H361 - Suspected of damaging fertility or the unborn child

Precautionary statements : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice/attention.

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P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Proprietary Alcohol Ethoxylate	Proprietary	55 – 65
Water	CAS-No.: 7732-18-5	25 – 35
2,4-Pentanediol, 2-methyl-	CAS-No.: 107-41-5	5 – 15

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move to fresh air. Call a physician if symptoms develop or persist.
First-aid measures after skin contact : Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
First-aid measures after ingestion : Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Prolonged inhalation may be harmful.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

5.3. Specific hazards arising from the hazardous product

Fire hazard : During fire, gases hazardous to health may be formed.
Explosion hazard : None known.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Move containers from fire area if you can do so without risk.
Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

For containment : Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods for cleaning up : Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original tightly closed container. Store away from incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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2,4-Pentanediol, 2-methyl- (107-41-5)

Canada (Alberta) - Occupational Exposure Limits

OEL C	121 mg/m ³
	25 ppm

Canada (Quebec) - Occupational Exposure Limits

Plafond (OEL C)	121 mg/m ³
	25 ppm

Canada (British Columbia) - Occupational Exposure Limits

OEL C	25 ppm
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Canada (Manitoba) - Occupational Exposure Limits

OEL TWA	25 ppm (vapor fraction)
OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
	50 ppm (vapor fraction)

Canada (New Brunswick) - Occupational Exposure Limits

OEL C	121 mg/m ³
	25 ppm

Canada (Newfoundland and Labrador) - Occupational Exposure Limits

OEL TWA	25 ppm (vapor fraction)
OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
	50 ppm (vapor fraction)

Canada (Nova Scotia) - Occupational Exposure Limits

OEL TWA	25 ppm (vapor fraction)
OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
	50 ppm (vapor fraction)

Canada (Nunavut) - Occupational Exposure Limits

OEL C	25 ppm
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Canada (Northwest Territories) - Occupational Exposure Limits

OEL C	25 ppm
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Canada (Ontario) - Occupational Exposure Limits

OEL C	25 ppm
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Canada (Prince Edward Island) - Occupational Exposure Limits

OEL TWA	25 ppm (vapor fraction)
OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
	50 ppm (vapor fraction)

Canada (Saskatchewan) - Occupational Exposure Limits

OEL C	25 ppm
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USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	25 ppm (vapor fraction)
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ACGIH OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
	50 ppm (vapor fraction)

8.2. Appropriate engineering controls

Appropriate engineering controls : General (mechanical) room ventilation is expected to be satisfactory for normal handling.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Use chemical resistant gloves.

Eye protection:

Wear safety glasses with side shields (or goggles).

Skin and body protection:

Wear suitable working clothes.

Respiratory protection:

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous
Color	: Pale yellow
Odor	: Not available
Odor threshold	: No data available
pH	: 6 – 8 (10% in water)
Relative evaporation rate (butyl acetate=1)	: < 1
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C (>212 F)
Flash point	: > 100 °C (>212 F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: 40 WT% (water)
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity	: No data available
Viscosity	: 365 cP @25C
Explosion limits	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

Reactivity	: No additional information available
Chemical stability	: The product is stable at normal handling and storage conditions.
Possibility of hazardous reactions	: None.
Conditions to avoid	: Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	: Strong acids. Strong oxidizing agents.
Hazardous decomposition products	: None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Water (7732-18-5)

LD50 oral rat	> 90 ml/kg
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2,4-Pentanediol, 2-methyl- (107-41-5)

LD50 oral rat	3700 mg/kg
LD50 dermal rabbit	12300 mg/kg
LC50 Inhalation - Rat	> 310 mg/m ³ (Exposure time: 1 h)

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

2,4-Pentanediol, 2-methyl- (107-41-5)

LC50 - Fish [1]	10500 – 11000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	2700 – 3700 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

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Persistence and degradability	Rapidly degradable
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Water (7732-18-5)

Persistence and degradability	Rapidly degradable
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2,4-Pentanediol, 2-methyl- (107-41-5)

Persistence and degradability	Rapidly degradable
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Proprietary Alcohol Ethoxylate

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

2,4-Pentanediol, 2-methyl- (107-41-5)

Partition coefficient n-octanol/water (Log Pow)	< 0.14
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

14.1. UN number

UN-No. (TDG)	: Not applicable
UN-No. (DOT)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG) : Not applicable

DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

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IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (TDG) : Not applicable

Packing group (DOT) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG

Not applicable

DOT

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Canada National regulations

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

2,4-Pentanediol, 2-methyl- (107-41-5)

Listed on the Canadian DSL (Domestic Substances List)

15.2. US Federal regulations

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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2,4-Pentanediol, 2-methyl- (107-41-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.3. US State regulations

Component	State or local regulations
2,4-Pentanediol, 2-methyl-(107-41-5)	U.S. - Massachusetts - Right To Know List; U.S. - Minnesota - Hazardous Substance List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.