



Alcohol-Free PPE Wipe Solution



Safety Data Sheet

According to GHS, OSHA (29CFR, 1910.1200), and REACH Annex II (EU2020/878)

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Version: 2.1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Form: Mixture

Product Name: Radians / Visionaid Alcohol-Free PPE Wipe Solution

Product Codes: 1LPPE100, LHW100, RWAF-100

1.2. Intended Use of the Product

Use of the Substance/Mixture: Cleaning of respirators and other personal protective equipment.

1.3. Name, Address, and Telephone of the Responsible Party

Supplier

Radians

5305 Distriplex Farms Drive

Memphis, TN 38141

T 877-723-4267

www.radians.com

1.4. Emergency Telephone Number

Emergency number

1-800-222-1222 – Poison Control

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

US Classification per GHS and OSHA HCS 29 CFR 1910.1200

Not classified

2.2. Label Elements

GHS-US Labeling

None applicable

2.3. Other Hazards

Eye Contact: Eye contact may cause mild eye irritation with discomfort.

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	> 99	Not classified
Dipropylene glycol	(CAS No) 25265-71-8	0.33	Not classified
4-Nonylphenol branched, ethoxylated	(CAS No) 127087-87-0	0.165	Acute Tox. 4 (Oral/Inhalation)- H302,H332; Eye Irrit. 2A- H319; Aquatic Acute 2- H401; Aquatic Chronic 2- H411
Tetrasodium EDTA	(CAS No) 64-02-8	0.129	Acute Tox. 4 (Oral/Inhalation)- H302,H332; Eye Dam. 1- H318;
Alkyl Dimethyl Benzyl Ammonium Chloride	(CAS No) 68391-01-5	0.066	Acute Tox. 4 (Oral/Skin Contact)- H302,H312; Skin Corr. 1B- H314; Eye Dam. 1- H318; Aquatic Acute 1- H400; Aquatic Chronic 1- H410;
Alkyl(C12-14)Dimethyl(Ethylbenzyl) Ammonium Chloride	(CAS No) 85409-23-0	0.066	Acute Tox. 4 (Oral/Skin Contact)- H302,H312; Skin Corr. 1B- H314; Eye Dam. 1- H318; Aquatic Acute 1- H400; Aquatic Chronic 1- H410;
Sodium Metasilicate	(CAS No) 6834-92-0	0.065	Met. Corr. 1- H290; Skin Corr. 1B- H314; Eye Dam. 1- H318; STOT SE 3- H335;
Sodium Hydroxyacetate	(CAS No) 2836-32-0	0.01	Not classified
Sodium Hydroxide	(CAS No) 1310-73-2	0.005	Met. Corr. 1- H290; Skin Corr. 1A- H314; Eye Dam. 1- H318; Aquatic Acute 3- H402;
Poly(Ethylene Oxide)	(CAS No) 25322-68-3	0.005	None
Dinonylphenyl Polyoxyethylene	(CAS No) 9014-93-1	0.003	Eye Irrit. 2A- H319
Trisodium Nitrilotriacetate	(CAS No) 5064-31-3	0.003	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Carc. 2, H351

At these concentrations, none of the ingredients are known to pose any hazards to human health.

Full text of H-phrases: see section 16

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SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: Remove victim to fresh air. If irritation persists, seek medical attention.

First-aid Measures After Skin Contact: Remove contaminated clothing and wash before reuse. Thoroughly wash skin with soap and water. Wash clothing before reuse. Get medical attention if irritation persists.

First-aid Measures After Eye Contact: Immediately flush eyes thoroughly with constantly running water for 15 minutes, lifting the upper and lower eyelids and rotating the eyeball. If contacts are worn, remove contact lenses after 5 minutes and continue to rinse for 15 to 20 minutes. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: May Cause mild eye irritation with discomfort.

Symptoms/Injuries After Inhalation: Not expected to cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Not expected to cause skin irritation.

Symptoms/Injuries After Eye Contact: May Cause mild eye irritation with discomfort.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable or combustible

Explosion Hazard: Product is not explosive

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Irritating fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapor, mist, spray). Avoid prolonged contact with eyes, on skin, or on clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Stop leak if safe to do so. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Evacuate unnecessary personnel. Ventilate area.

6.1.2. For Emergency Responders

Same as above

6.2. Environmental Precautions

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up any spills as soon as possible, using an absorbent material to collect it. For large or bulk quantities, after absorption with inert material, collect spillage by sweeping up spilled material and place in a labeled, sealed container for proper disposal. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Avoid breathing vapors, mist, spray. Avoid prolonged contact with skin, eyes, and clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container tightly closed. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Cleaning of eye protectors, respirators, hearing protectors, and other personal protective equipment.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: OSHA, ACGIH, or NIOSH.

Poly(ethylene oxide) (25322-68-3)

USA WEEL	WEEL TWA Aerosol (mg/m ³)	10 mg/m ³
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Sodium Hydroxide (1301-73-2)

USA ACGIH	ACGIH REL (C) (mg/m ³)	2 mg/m ³
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USA NIOSH	NIOSH REL (C) (mg/m ³)	2 mg/m ³
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USA OSHA Z-1	OSHA PEL (TWA) (mg/m ³)	2 mg/m ³
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CA Title 8 Article 107	CA REL (C) (mg/m ³)	2 mg/m ³
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8.2. Exposure Controls

Appropriate Engineering Controls

: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

: Not required for normal conditions of use.

Materials for Protective Clothing

: Not required for normal conditions of use. Wear suitable protective clothing.

Hand Protection

: Chemically resistant gloves are recommended, but not required.

Eye Protection

: Not required for normal conditions of use. Use eye protection when handling as a bulk liquid.

Skin and Body Protection

: Not required for normal conditions of use. Wear suitable protective clothing when handling as a bulk liquid.

Respiratory Protection

: Not required for normal conditions of use. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance : Clear

Odor : None

Odor Threshold : No data available

pH : No data available

Evaporation Rate : No data available

Melting Point : No data available

Freezing Point : No data available

Boiling Point : No data available

Flash Point : No data available

Auto-ignition Temperature : No data available

Decomposition Temperature : No data available

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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	: Water: Miscible
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

9.2. Other Information: No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity: Stable under normal conditions.
- 10.2. Chemical Stability: Stable under recommended handling and storage conditions.
- 10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Dipropylene glycol (25265-71-8)

Acute	LD50 Dermal Rabbit	20 ml/kg
Acute	LD50 Oral Guinea Pig	17600 mg/kg
Acute	LD50 Oral Rat	14.8 ml/kg

4-Nonylphenol branched, ethoxylated (127087-87-0)

Acute	LD50 Dermal Rabbit	2000 - 2991 mg/kg
Acute	LD50 Oral Rat	960 - 3980 mg/kg
Acute	LC50 Inhalation Rat (Dust/Mist)	1.15 mg/l/4h

Tetrasodium EDTA (64-02-8)

Acute	LD50 Oral Rat	1780 mg/kg
Acute	ATE (Dust/Mist)	1.5 mg/l/4h

Alkyl Dimethyl Benzyl Ammonium Chloride (68391-01-05)

Acute	LD50 Dermal	3560 mg/kg
Acute	LD50 Oral	430 mg/kg

Alkyl(C12-14)Dimethyl(Ethylbenzyl) Ammonium Chloride (85409-23-0)

Acute	LD50 Dermal	3560 mg/kg
Acute	LD50 Oral	430 mg/kg

Sodium Metasilicate (6834-92-0)

Acute	LD50 Oral Rat	1152 mg/kg
Acute	LC50 Inhalation Rat	2.06 mg/l/4h

Sodium Hydroxyacetate (2836-32-0)

Acute	LD50 Oral Rat	7110 mg/kg
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Poly (Ethylene Oxide) (25322-68-3)

Acute	LD50 Oral Rat	>2000 mg/kg
Acute	LD50 Dermal	>2500 mg/kg

Trisodium Nitrilotriacetate (5064-31-3)

Acute	LD50 Oral Rat	1740 mg/kg
Acute	LD50 Dermal	>2500 mg/kg

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Skin Corrosion/Irritation:	Not Classified
Serious Eye Damage/Irritation:	Not Classified
Respiratory or Skin Sensitization:	Not Classified
Germ Cell Mutagenicity:	Not Classified
Carcinogenicity:	Not Classified
Reproductive Toxicity:	Not Classified
Specific Target Organ Toxicity (Single Exposure):	Not Classified
Specific Target Organ Toxicity (Repeated Exposure):	Not Classified
Aspiration Hazard:	Not Classified
Symptoms/Injuries After Inhalation:	Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact:	Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact:	May cause mild eye irritation with discomfort.
Symptoms/Injuries After Ingestion:	Ingestion may cause adverse effects.
Chronic Symptoms:	None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

Dipropylene glycol (25265-71-8)

Type	Subject	Value	Time
LC50 Fish	Carassius Auratus (goldfish)	>5000 mg/l	24 hours
EC50 Aquatic Invertebrates	Daphnia Magna (Water Flea)	>100 mg/l	48 hours
EC50 Algae	Desmodesmus subspicatus (green algae)	>100 mg/l	72 hours

4-Nonylphenol branched, ethoxylated (127087-87-0)

Type	Subject	Value	Time
LC50 Fish	Pimephales Promelas (Fathead Minnow)	3.8-6.2 mg/l	96 hours
LC50 Aquatic Invertebrates	Daphnia Magna (Water Flea)	9.3-21.4 mg/l	48 hours
IC50 Bacteria	Bacteria	>1000 mg/l	16 hours

Tetrasodium EDTA (64-02-8)

Type	Subject	Value	Time
LC50 Fish	Pimephales Promelas (Fathead Minnow)	>100 mg/l	96 hours
LC50 Fish	Lepomis Macrochirus (Bluegill)	157-2070 mg/l	96 hours
EC50 Aquatic Invertebrates	Daphnia	>500 mg/l	24 hours
IC50 Algae	Algae	10-100 mg/l	72 hours

Alkyl Dimethyl Benzyl Ammonium Chloride (68391-01-05)

Type	Subject	Value	Time
LC50 Fish	Lepomis Macrochirus (Bluegill)	0.515 mg/l	Not Specified
NOEL Crustacea	Daphnia	.0042 mg/l	Not Specified

Alkyl(C12-14)Dimethyl(Ethylbenzyl) Ammonium Chloride (85409-23-0)

Type	Subject	Value	Time
LC50 Fish	Lepomis Macrochirus (Bluegill)	0.515 mg/l	Not Specified
NOEL Crustacea	Daphnia	.0042 mg/l	Not Specified

Sodium Metasilicate (6834-92-0)

Type	Subject	Value	Time
LC50 Fish	Danio Rerio (Zebra Fish)	210 mg/l	96 hours
EC50 Aquatic Invertebrates	Daphnia Magna (Water Flea)	1700 mg/l	48 hours
EC50 Algae	Desmodesmus subspicatus (green algae)	207 mg/l	72 hours
IC50 Bacteria	Activate Sludge	>100 mg/l	3 hours

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Poly (Ethylene Oxide) (25322-68-3)

Type	Subject	Value	Time
LC50 Fish	Poecilia Reticulata (Guppy)	>100 mg/l	96 hours
EC50 Aquatic Invertebrates	Daphnia Magna (Water Flea)	>100 mg/l	48 hours

Trisodium Nitrotriacetate (5064-31-3)

Type	Subject	Value	Time
LC50 Fish	Pimephales Promelas (Fathead Minnow)	114 mg/l	96 hours
ErC50 Algae	Desmodesmus Subspicatus (Green Algae)	>91.5 mg/l	72 hours
NOEC Fish	Pimephales Promelas (Fathead Minnow)	54 mg/l	229 days
NOEC Aquatic Invertebrates	Daphnia Magna (Water Flea)	100 mg/l	21 days

- 12.2. Persistence and Degradability:** No Data Available
12.3. Bioaccumulative Potential: No Data Available
12.4. Mobility in Soil: No Data Available
12.5. Other Adverse Events: No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

- Sewage Disposal Recommendations:** Do not dispose of waste into sewer
Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.
Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

- US:** Not regulated for transport.
IMDG: Not regulated for transport.
IATA: Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

All components of this product are in compliance with the Toxic Substance Control Act (TSCA)

SARA 302 components: No ingredients are subject to reporting.

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

SARA 313 components: No ingredients with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.2. US State Regulations

Massachusetts Right to Know: Formaldehyde (50-00-0)
Sodium Hydroxide (1301-73-2)
Trisodium Nitrotriacetate (5064-31-3)

New Jersey Right to Know: Formaldehyde (50-00-0)
Sodium Hydroxide (1301-73-2)

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Pennsylvania Right to Know: Formaldehyde (50-00-0)
Oxydipropanol (25265-71-8)
Sodium Hydroxide (1301-73-2)

California Prop 65 components: This product is not known to contain any chemicals listed by the State of California under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) to cause cancer, birth defects, or reproductive harm.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

This document has been prepared in accordance with the SDS requirements of the Globally Harmonization System (GHS), OSHA Hazard Communication Standard 29 CFR 1910.1200, and REACH Annex II (EU2020/878)

GHS Full Text Phrases:

Acute Tox. 4 (Oral) - Acute toxicity (oral) Category 4
Acute Tox. 4 (Oral/Inhalation) - Acute toxicity (oral and inhalation) Category 4
Acute Tox. 4 (Oral/Skin Contact) - Acute toxicity (oral and skin contact) Category 4
Aquatic Acute 1- Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2- Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3- Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1- Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2- Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 2 - Carcinogenicity Category 2
Eye Dam. 1- Serious eye damage/eye irritation Category 1
Eye Irrit. 2A- Serious eye damage/eye irritation Category 2A
Met. Corr. 1- Corrosive to metals Category 1
Skin Corr. 1A- Skin corrosion/irritation Category 1A
Skin Corr. 1B- Skin corrosion/irritation Category 1B
STOT SE 3- Specific target organ toxicity (single exposure) Category 3
H290 - May be corrosive to metals.
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May Cause Respiratory Irritation.
H351 - Suspected of causing cancer.
H400 - Very toxic to aquatic life.
H401 - Toxic to aquatic life.
H402 - Harmful to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.
H411 - Toxic to aquatic life with long lasting effects.

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.