



# PetraShield Water Spot Remover

## Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)  
Issue date: 10/1/2025 Revision date: 10/1/2025 Version: 1.0

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : PetraShield Water Spot Remover  
Product code : 9D408G, 9D408G5, 9D408G55

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Automotive Care Products.  
Restrictions on use : Professional use

#### 1.4. Supplier's details

##### Manufacturer

Petra Automotive Products, Inc.  
11085 Regency Green Dr.  
Cypress, TX 77429  
USA  
T (713) 856-5700  
[www.petraautoproducts.com](http://www.petraautoproducts.com)

#### 1.5. Emergency phone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only): CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Full text of H statements : see section 16		

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves, eye protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P332+P313 - If skin irritation occurs: Get medical advice or attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice or attention.

### 2.3. Hazards associated with known or reasonably anticipated uses

None known

### 2.4. Hazards not otherwise classified

Other hazards which do not result in classification : None known.

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Phosphoric acid	CAS-No.: 7664-38-2	<1.0
Ammonium bifluoride	CAS-No.: 1341-49-7	<1.0

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret  
Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Move the affected person to fresh air. Get medical attention if symptoms occur.  
First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
First-aid measures after eye contact : 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.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : Causes skin irritation. Causes serious eye irritation. May cause minor irritation to the respiratory tract and to other mucous membranes.  
Inhalation : May cause minor irritation to the respiratory tract and to other mucous membranes.  
Skin : Causes skin irritation.  
Eyes : Causes serious eye irritation.  
Ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
Chronic symptoms : No chronic health hazards are likely for this material.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Not required. Treat symptomatically.

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.  
Unsuitable extinguishing media : None.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : This product is not classified as flammable or combustible.  
Hazardous decomposition products in case of fire : Toxic fumes may be released. ammonium fluoride.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray.  
Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6 Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate spillage area. Avoid contact with eyes, skin and clothing. Wear suitable protective clothing.

##### For non-emergency personnel

Emergency procedures : Ventilate area. Avoid breathing mist, spray, vapors. Avoid contact with skin and eyes. Wear suitable protective clothing. Keep unnecessary and unprotected personnel away from the spillage. Stop leak if safe to do so. Only qualified personnel equipped with suitable protective equipment may intervene.

##### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions : Avoid release to the environment.

#### 6.2. Methods and materials for containment and cleaning up

For containment : Dike and contain spill.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

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 : Ensure adequate ventilation. Avoid breathing mist, vapors. Avoid contact with eyes, skin and clothing. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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### 7.2. Conditions for safe storage, including incompatibilities

- Storage conditions
- : Store in dry, cool, well-ventilated area.
- Incompatible materials
- : Strong oxidizers. Strong bases.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

Phosphoric acid (7664-38-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Phosphoric acid
ACGIH® TLV® TWA	1 mg/m³
ACGIH® TLV® STEL	3 mg/m³
Remark (ACGIH®)	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Phosphoric acid
OSHA PEL (TWA)	1 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Ammonium bifluoride (1341-49-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Fluorides, as F
ACGIH® TLV® TWA	2.5 mg/m³
Remark (ACGIH®)	TLV® Basis: Bone dam; fluorosis. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Fluorides
BEI (BLV)	2 mg/l Parameter: Fluorides - Medium: urine - Sampling time: Prior to shift - Notations: B,Ns 3 mg/l Parameter: Fluorides - Medium: urine - Sampling time: End of shift - Notations: B, Ns
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Fluorides (as F)
OSHA PEL (TWA)	2.5 mg/m³
Remark (OSHA)	(4) CAS No. varies with compound.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

### 8.2. Appropriate engineering controls

- Appropriate engineering controls
- : Provide local exhaust or general room ventilation to minimize mist and/or vapor concentrations.
- Environmental exposure controls
- : Avoid release to the environment.

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### 8.3. Individual protection measures, such as personal protective equipment

<b>Hand protection:</b>
Wear impervious gloves. Consult supplier for specific recommendations.
<b>Eye protection:</b>
Wear safety goggles or other eye protection to prevent eye contact.
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
Not required for normal conditions of use. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.
<b>Thermal hazard protection:</b>
Not applicable.

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: Pungent
Odor threshold	: Not determined
pH	: 2.03
Melting point	: Not determined
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: Not determined
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: Not determined
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: Not determined
Density	: ≈ 1.013 g/ml
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: 311 °C
Decomposition temperature	: Not determined
Viscosity, kinematic	: Not determined
Explosion limits	: No data available
Explosive properties	: None.
Oxidizing properties	: None.
Particle characteristics	: Particle characteristics : Not applicable

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

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### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Strong oxidizers. Strong bases.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

##### Phosphoric acid (7664-38-2)

LD50 oral rat	1530 mg/kg
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LD50 dermal rabbit	2740 mg/kg
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##### Ammonium bifluoride (1341-49-7)

LD50 oral rat	130 mg/kg
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Skin corrosion/irritation : Causes skin irritation.  
pH: 2.03

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 2.03

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

##### Phosphoric acid (7664-38-2)

NOAEL (oral,rat,90 days)	250 mg/kg body weight
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Aspiration hazard : Not classified

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### PetraShield Water Spot Remover

Viscosity, kinematic	Not determined
Symptoms/effects	: Causes skin irritation. Causes serious eye irritation. May cause minor irritation to the respiratory tract and to other mucous membranes.
Inhalation	: May cause minor irritation to the respiratory tract and to other mucous membranes.
Skin	: Causes skin irritation.
Eyes	: Causes serious eye irritation.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: No chronic health hazards are likely for this material.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Avoid release to the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Hazardous to the aquatic environment, short-term (acute)	: Not applicable.
Hazardous to the aquatic environment, long-term (chronic)	: Not applicable.

#### Phosphoric acid (7664-38-2)

EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
NOEC chronic algae	100 mg/l

#### Ammonium bifluoride (1341-49-7)

LC50 - Fish [1]	421.4 mg/l
EC50 - Crustacea [1]	97 mg/l
EC50 96h - Algae [1]	43 mg/l
NOEC (chronic)	3.7 mg/l Daphnia magna (Water flea)
NOEC chronic fish	1.2 mg/l Oncorhynchus gorbuscha

### 12.2. Persistence and degradability

#### PetraShield Water Spot Remover

Persistence and degradability	No additional information available.
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#### Phosphoric acid (7664-38-2)

Persistence and degradability	Biodegradation is not applicable to inorganic compounds.
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#### Ammonium bifluoride (1341-49-7)

Persistence and degradability	Biodegradation is not applicable to inorganic compounds.
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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

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### 12.5. Other adverse effects

Ozone : Not classified  
Fluorinated greenhouse gases : No

### SECTION 13 Disposal considerations

Regional waste regulation : Dispose in a safe manner in accordance with local/national regulations.  
Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
Not regulated for transport			
<b>14.2. Proper Shipping Name</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

**DOT**  
Not regulated

**TDG**  
Not regulated

**IMDG**  
Not regulated

**IATA**  
Not regulated

### SECTION 15 Regulatory information

#### 15.1. Federal regulations

<b>PetraShield Water Spot Remover</b>	
SARA Section 311/312 Hazard Classes	Refer to Section 2 for OSHA Hazard Classification.



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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### Phosphoric acid (7664-38-2)

CERCLA RQ	5000 lb
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### Ammonium bifluoride (1341-49-7)

CERCLA RQ	100 lb
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## 15.2. International regulations

### CANADA

#### Phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)

#### Ammonium bifluoride (1341-49-7)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

#### PetraShield Water Spot Remover

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory  
Listed on the Canadian DSL (Domestic Substances List)

#### Ammonium bifluoride (1341-49-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Phosphoric acid(7664-38-2)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List
Ammonium bifluoride(1341-49-7)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16 Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

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Revision date : 10/1/2025  
Issue date : 10/1/2025

Full text of hazard classes and H-statements	
H315	Causes skin irritation
H319	Causes serious eye irritation

Indication of changes:
New SDS.

Safety Data Sheet (SDS), USA

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.