



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name

**Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection**

Alternative number(s)

067788192082, step 2, 070612185143, step 2

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

General use

#### 1.3 Details of the supplier of the safety data sheet

Energizer Manufacturing, Inc.  
25225 Detroit Rd.  
Westlake OH 44145  
United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)  
e-mail: Autocare.regulatory@energizer.com  
Website: <http://data.energizer.com>

#### 1.4 Emergency telephone number

Emergency information service

FOR EMERGENCY in USA & Canada CALL +1 800 255-3924 / For International CALL +1 813 248 0585  
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.1I	acute toxicity (inhal.)	2	Acute Tox. 2	H330
A.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.7	reproductive toxicity	2	Repr. 2	H361d
B.7	flammable solid	1	Flam. Sol. 1	H228

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS06, GHS07,  
GHS08



- Hazard statements

H228	Flammable solid.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H361d	Suspected of damaging the unborn child.

- Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P320	Specific treatment is urgent (see on this label).
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling hexan-1-ol, toluene

### 2.3 Other hazards

Hazards not otherwise classified

May be harmful if swallowed (GHS category 5: acutely toxic - oral).  
May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).  
Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .









### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
hexan-1-ol	CAS No 111-27-3	25 – < 50	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 1 / H330 Eye Irrit. 2 / H319 Flam. Liq. 3 / H226	  
Diethylene glycol monobutyl ether	CAS No 112-34-5	25 – < 50	Eye Irrit. 2 / H319	
toluene	CAS No 108-88-3	< 1	Acute Tox. 1 / H330 Skin Irrit. 2 / H315 Repr. 2 / H361d STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225	   

For full text of abbreviations: see SECTION 16.

### SECTION 4: First-aid measures

#### 4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.



## Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

# Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

#### 4.3 Indication of any immediate medical attention and special treatment needed

none

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically



## Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

# Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

- Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.

### 7.3 Specific end use(s)

See section 16 for a general overview.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	toluene	108-88-3	REL	100 (10 h)	375 (10 h)	150	560				NIOSH REL
US	toluene	108-88-3	TLV®	20							ACGIH® 2023
US	toluene	108-88-3	PEL	200		500 (10 min)		300			29 CFR 1910.1000
US	toluene (toluol)	108-88-3	PEL (CA)	10	37	150	560	500			Cal/OSHA PEL
US	diethylene glycol monobutyl ether	112-34-5	TLV®	10						iv	ACGIH® 2023

##### Notation

Ceiling-C

iv

STEL

TWA

ceiling value is a limit value above which exposure should not occur

inhalable fraction and vapor

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

##### Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	toluene	toluene		BEI®	0.02 mg/l	ACGIH® 2023
US	toluene	toluene		BEI®	0.03 mg/l	ACGIH® 2023
US	toluene	o-cresol	hydr, crea	BEI®	0.3 mg/g	ACGIH® 2023

##### Notation

crea

hydr

creatinine

hydrolysis



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### Relevant DNELs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
hexan-1-ol	111-27-3	DNEL	99 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
hexan-1-ol	111-27-3	DNEL	210 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
hexan-1-ol	111-27-3	DNEL	28 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
hexan-1-ol	111-27-3	DNEL	190 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Diethylene glycol monobutyl ether	112-34-5	DNEL	67.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Diethylene glycol monobutyl ether	112-34-5	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Diethylene glycol monobutyl ether	112-34-5	DNEL	67.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Diethylene glycol monobutyl ether	112-34-5	DNEL	101.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
toluene	108-88-3	DNEL	192 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
toluene	108-88-3	DNEL	384 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
toluene	108-88-3	DNEL	192 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
toluene	108-88-3	DNEL	384 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
toluene	108-88-3	DNEL	384 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

### Relevant PNECs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
hexan-1-ol	111-27-3	PNEC	62 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
hexan-1-ol	111-27-3	PNEC	1.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

Relevant PNECs of components of the mixture						
Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
hexan-1-ol	111-27-3	PNEC	0.14 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
hexan-1-ol	111-27-3	PNEC	0.26 mg/l	aquatic organisms	freshwater	short-term (single instance)
hexan-1-ol	111-27-3	PNEC	0.026 mg/l	aquatic organisms	marine water	short-term (single instance)
hexan-1-ol	111-27-3	PNEC	0.12 mg/kg	terrestrial organisms	soil	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	1.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	0.11 mg/l	aquatic organisms	marine water	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	4.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	0.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	0.32 mg/kg	terrestrial organisms	soil	short-term (single instance)
toluene	108-88-3	PNEC	0.68 mg/l	aquatic organisms	freshwater	short-term (single instance)
toluene	108-88-3	PNEC	0.68 mg/l	aquatic organisms	marine water	short-term (single instance)
toluene	108-88-3	PNEC	13.61 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
toluene	108-88-3	PNEC	16.39 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
toluene	108-88-3	PNEC	16.39 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
toluene	108-88-3	PNEC	2.89 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls





# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

##### - Hand protection

Wear protective gloves.

##### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	solid (fabrics)
Color	not determined
Odor	characteristic

#### Other safety parameters

pH (value)	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	155 °C at 101.6 kPa
Flash point	60 °C at 101.5 kPa
Evaporation rate	Not determined



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

Flammability (solid, gas)	flammable solid in accordance with GHS criteria
Explosion limits of dust clouds	not determined
Vapor pressure	3.64 mbar at 38 °C
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	not determined

### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	210 °C (relative self-ignition temperature for solids)
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidizing properties	none

### 9.2 Other information

Temperature class (USA, acc. to NEC 500)	T3 (maximum permissible surface temperature on the equipment: 200°C)
--	--

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

### 10.2 Chemical stability

See below "Conditions to avoid".



## Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

# Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Fatal if inhaled.

GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin.

- Acute toxicity estimate (ATE)

Inhalation: gas 6,950 ppmV/4h  
Inhalation: vapor 0.5772 mg/l/4h

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
hexan-1-ol	111-27-3	dermal	>1,500 mg/kg
hexan-1-ol	111-27-3	inhalation: vapor	>0.237 mg/l/4h
toluene	108-88-3	inhalation: gas	7.6 ppmV/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
toluene	108-88-3	3	

#### Legend

3 Not classifiable as to carcinogenicity in humans

### Reproductive toxicity

Suspected of damaging the unborn child.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
hexan-1-ol	111-27-3	LC50	97.5 mg/l	fish	96 h
hexan-1-ol	111-27-3	LL50	>0.7 mg/l	fish	96 h
hexan-1-ol	111-27-3	EC50	201 mg/l	aquatic invertebrates	24 h



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
hexan-1-ol	111-27-3	EL50	0.3 mg/l	aquatic invertebrates	48 h
hexan-1-ol	111-27-3	ErC50	79.7 mg/l	algae	72 h
hexan-1-ol	111-27-3	NOEC	≥1 mg/l	fish	96 h
hexan-1-ol	111-27-3	LOEC	3.1 mg/l	aquatic invertebrates	48 h
hexan-1-ol	111-27-3	NOELR	0.03 mg/l	algae	72 h
Diethylene glycol monobutyl ether	112-34-5	LC50	1,300 mg/l	fish	96 h
Diethylene glycol monobutyl ether	112-34-5	EC50	>100 mg/l	aquatic invertebrates	48 h
Diethylene glycol monobutyl ether	112-34-5	ErC50	>100 mg/l	algae	96 h
Diethylene glycol monobutyl ether	112-34-5	NOEC	≥100 mg/l	aquatic invertebrates	48 h
toluene	108-88-3	LC50	5.5 mg/l	fish	96 h
toluene	108-88-3	EC50	84 mg/l	microorganisms	24 h

### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
hexan-1-ol	111-27-3	LC50	3.4 mg/l	fish	120 h
hexan-1-ol	111-27-3	EC50	>47.6 µg/l	aquatic invertebrates	21 d
hexan-1-ol	111-27-3	NOEC	>140 µg/l	fish	35 d
hexan-1-ol	111-27-3	LOEC	0.54 mg/l	fish	33 d
toluene	108-88-3	LC50	3.78 mg/l	aquatic invertebrates	2 d
toluene	108-88-3	EC50	3.23 mg/l	aquatic invertebrates	7 d
toluene	108-88-3	LOEC	2.77 mg/l	fish	40 d
toluene	108-88-3	NOEC	1.39 mg/l	fish	40 d



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

14.1	UN number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	Transport hazard class(es)	none
14.4	Packing group	not assigned
14.5	Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations
14.6	Special precautions for user	
	There is no additional information.	



## Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

# Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

## 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

DOT

### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not subject to transport regulations.

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

## 15.1 Safety, health and environmental regulations specific for the product in question

### National regulations (United States)

#### Toxic Substance Control Act (TSCA)

all ingredients are listed (ACTIVE) or exempt from listing

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

Name of substance	CAS No	Remarks	Effective date
toluene	108-88-3		1987-01-01

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
toluene	108-88-3		1 2 3 4	1000 (454)



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
- 2 "2" indicates that the source is section 307(a) of the Clean Water Act
- 3 "3" indicates that the source is section 112 of the Clean Air Act
- 4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

### Clean Air Act

none of the ingredients are listed

### Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
hexan-1-ol	111-27-3	fragrance	
Diethylene glycol monobutyl ether		solvents	CA TACs
Cellulose, regenerated	68442-85-3	substrate	
Titanium dioxide	13463-67-7	whitener	
toluene	108-88-3	solvents	ATSDR Neurotoxics CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(c) IRIS Neurotoxics OEHA RELs Prop 65

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Diethylene glycol monobutyl ether		1022			1.0 %
toluene	108-88-3				1.0 %

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Diethylene glycol monobutyl ether			
toluene	108-88-3		TE F3
hexan-1-ol	111-27-3		F2





# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### Legend

F2 Flammable - Second Degree  
F3 Flammable - Third Degree  
TE Teratogenic

### - Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
GLYCOL ETHERS		E
BENZENE, METHYL-	108-88-3	E
1-HEXANOL	111-27-3	

### Legend

E Environmental hazard

### - Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
toluene	108-88-3	T, F
toluene	108-88-3	T, F
toluene	108-88-3	T, F
hexan-1-ol	111-27-3	F

### Legend

F Flammability (NFPA®)  
T Toxicity (ACGIH®)

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

#### Proposition 65 List of chemicals

Name acc. to inventory	CAS No	Remarks	Type of the toxicity
titanium dioxide	13463-67-7	airborne, unbound particles of respirable size	cancer
toluene	108-88-3		developmental



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

Name of substance	CAS No	Listed in	Special conditions	Excluded transactions	DEA - code	Concentration limit
toluene	108-88-3	List II chemicals	SC-6594	excl-trans-12	6594	35% by Weight or Volume

#### Legend

excl-trans-12 Excluded transactions: Domestic and import transactions in chemical mixtures that contain acetone, ethyl ether, 2-butanone, and/or toluene, unless regulated because of being formulated with other List I or List II chemical(s) above the concentration limit.  
List II The term "list II chemical" means a chemical (other than a list I chemical) specified by regulation of the Attorney General as a chemical that is used in manufacturing a controlled substance in violation of this subchapter.  
chemicals  
SC-6594 Exports only; Limit applies to toluene or any combination of acetone, ethyl ether, 2-butanone, methyl isobutyl ketone, and toluene if present in the mixture by summing the concentrations for each chemical.

### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		



## Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

# Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	not all ingredients are listed

#### Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NDSL	Non-domestic Substances List (NDSL)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### SECTION 16: Other information, including date of preparation or last revision

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table)	yes
2.2		- Pictograms: change in the listing (table)	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2	- Hazardous ingredients for labelling: toluene	- Hazardous ingredients for labelling: hexan-1-ol, toluene	yes
2.3		Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$ .	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .	yes
3.2		Description of the mixture: change in the listing (table)	yes
6.2	Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.	Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Biological limit values: change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
11.1	Acute toxicity: Harmful if inhaled.GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin.	Acute toxicity: Fatal if inhaled.GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin.	yes
11.1		- Acute toxicity estimate (ATE): change in the listing (table)	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$ .	yes
12.6	Endocrine disrupting properties: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .	yes
14.3	Transport hazard class(es): not assigned	Transport hazard class(es): none	yes
15.1	Toxic Substance Control Act (TSCA): all ingredients are listed	Toxic Substance Control Act (TSCA): all ingredients are listed (ACTIVE) or exempt from listing	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (RI-RTK): change in the listing (table)	yes
15.1		NFPA® 704: change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2023	From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a>
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEA	Drug Enforcement Administration
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

Abbr.	Descriptions of used abbreviations
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LHS	Lower hazard substance
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All Ultra Shine Headlight Restoration Wipe - Step 2 UV Sealant Protection

Version number: 4.2  
Replaces version of: 2022-06-28 (3)

Revision: 2023-09-11

Abbr.	Descriptions of used abbreviations
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.