



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

### 1 Identification

#### 1.1 Product identifier

Trade name

**Eagle One Aluminum Wheel Cleaner (Before 4/29/20)**

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

Relevant identified uses

Consumer uses

#### 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

### 2 Hazard identification

#### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.6	flammable liquid	4	Flam. Liq. 4	H227

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

Labeling

- Signal word warning
- Pictograms not required
- Hazard statements  
H227 Combustible liquid.



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Version number: 6.1  
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Revision: 2023-09-11

### - Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403	Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

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

## 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
C9-C11 Alcohol Ethoxylate	CAS No 68439-46-3 160901-09-7	1 – < 5	Eye Irrit. 2A / H319	
Sodium Lauryl Ether Sulfate	CAS No 68585-34-2	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
Glycol ether	CAS No 111-76-2	1 – < 5	Flam. Liq. 4 / H227 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	

For full text of abbreviations: see SECTION 16.



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Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

### 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.

##### 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

### 5 Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Water jet

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

##### Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), 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.



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acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
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Revision: 2023-09-11

### 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.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

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.

### 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. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

### 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

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

##### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

#### Control of the effects

#### Protect against external exposure, such as

frost

##### - Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## 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
CA	2-butoxyethanol	111-76-2	PEV/VEA	20							Regulation OHS
CA	2-butoxyethanol (EGBE)	111-76-2	OEL (BC)	20							"BC Regulation"
CA	2-butoxyethanol (EGBE)	111-76-2	OEL (ON-MoL)	20							MoL
CA	2-butoxyethanol (ethylene glycol monobutyl ether)	111-76-2	OEL (AB)	20	97						OHS Code



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acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

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### Notation

Ceiling-C  
STEL

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

TWA

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)

### Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	DNEL	294 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	DNEL	2,080 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Glycol ether	111-76-2	DNEL	125 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Glycol ether	111-76-2	DNEL	89 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Glycol ether	111-76-2	DNEL	98 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Glycol ether	111-76-2	DNEL	1,091 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Glycol ether	111-76-2	DNEL	246 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects

### Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	PNEC	0.074 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	PNEC	0.007 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	PNEC	0.009 mg/kg	terrestrial organisms	soil	short-term (single instance)



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acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Glycol ether	111-76-2	PNEC	9.1 mg/l	aquatic organisms	water	intermittent release
Glycol ether	111-76-2	PNEC	8.8 mg/l	aquatic organisms	freshwater	short-term (single instance)
Glycol ether	111-76-2	PNEC	0.88 mg/l	aquatic organisms	marine water	short-term (single instance)
Glycol ether	111-76-2	PNEC	463 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Glycol ether	111-76-2	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Glycol ether	111-76-2	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Glycol ether	111-76-2	PNEC	2.33 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Skin protection

##### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these 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.



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

### 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	colorless
Odor	fruity
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	78 °C at 1,013 hPa
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	not determined
Flash point	67 °C at 1,013 hPa
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	7.5
Kinematic viscosity	not determined
Solubility(ies)	not determined

#### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapor pressure	0.8 hPa at 20 °C
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#### Density and/or relative density



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Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Density	1.015 g/cm <sup>3</sup>
Relative vapour density	1.015 (air = 1)

Particle characteristics	not relevant (liquid)
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### 9.2 Other information

Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	there is no additional information

## 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".

### 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

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 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.



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## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
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Revision: 2023-09-11

### 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 GHS

##### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Glycol ether	111-76-2	oral	1,414 mg/kg

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

##### 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.

##### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

##### 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.

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

### 12 Ecological information

#### 12.1 Toxicity

Harmful to aquatic life.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	LC50	6.28 mg/l	fish	96 h
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	EC50	1.95 mg/l	aquatic invertebrates	48 h
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	ErC50	2.99 mg/l	algae	72 h
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	NOEC	4.25 mg/l	fish	96 h
Sodium Lauryl Ether Sulfate	68585-34-2	EC50	27 mg/l	algae	72 h
Sodium Lauryl Ether Sulfate	68585-34-2	EC50	7.2 mg/l	daphnia	48 h
Sodium Lauryl Ether Sulfate	68585-34-2	EC50	7.1 mg/l	zebra fish	96 h
Glycol ether	111-76-2	LC50	1,474 mg/l	fish	96 h
Glycol ether	111-76-2	EC50	1,550 mg/l	aquatic invertebrates	48 h
Glycol ether	111-76-2	ErC50	1,840 mg/l	algae	72 h
Glycol ether	111-76-2	NOEC	88 mg/l	algae	72 h

#### 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  $\geq 0.1\%$ .



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

### 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.

## 13 Disposal considerations

### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

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.

## 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.
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 information - National regulations - Additional information (UN RTDG)

Not subject to transport regulations: UN RTDG



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acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

### 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.

## 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)** not all ingredients are listed (ACTIVE)

#### 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)

none of the ingredients are listed

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

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

none of the ingredients are listed

#### 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
Water	7732-18-5	solvents	
C9-C11 Alcohol Ethoxylate	68439-46-3 160901-09-7	surfactant	
Sodium gluconate	527-07-1	chelating agent	
Sodium Lauryl Ether Sulfate	68585-34-2	surfactant	
Glycol ether	111-76-2	solvents	OEHHA RELS
Lauryl amine oxide	1643-20-5	fragrance	
Sodium alkyl sulfate	trade secret	stabilizer	
Ethanol	64-17-5	solvents	
Triethanolamine	102-71-6	pH Adjuster	



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Name of substance	CAS No	Functionality	Authoritative Lists
1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	6440-58-0	antimicrobial agent	Nonfunctional constituents
2-Propenoic acid, homopolymer, sodium salt	9003-04-7	thickener	

### - Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Glycol ether		1022			1.0 %

### - Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
Glycol ether	111-76-2	A, O	skin

#### Legend

A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH  
O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division  
skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

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

Name of substance	CAS No	Remarks	Classifications
Glycol ether	111-76-2		CA F2

#### Legend

CA Carcinogenic  
F2 Flammable - Second Degree

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

Name acc. to inventory	CAS No	Classification
ETHANOL, 2-BUTOXY-	111-76-2	



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acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

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

Name of substance	CAS No	References
Glycol ether	111-76-2	T
Glycol ether	111-76-2	T

#### Legend

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
diethanolamine	111-42-2		cancer
ethanol (ethyl alcohol)	64-17-5	in alcoholic beverages	developmental

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

none of the ingredients are listed

### 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	0	no significant risk to health
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
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).



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### National inventories

Country	Inventory	Status
AU	AIIC	not all ingredients are listed
CA	DSL	not all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	not 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	not 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	not all ingredients are listed
US	TSCA	not all ingredients are listed
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
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Legend  
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.

## 16 Other information

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

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1	Classification acc. to GHS: This mixture does not meet the criteria for classification.	Classification acc. to GHS	yes
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1		The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources.	yes
2.2	Labeling: not required	Labeling	yes
2.2		- Signal word: warning	yes
2.2		- Pictograms: not required	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.3	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	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



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
5.2	Special hazards arising from the substance or mixture	Special hazards arising from the substance or mixture: In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.	yes
7.1	- Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Use only in well-ventilated areas.	- Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.	yes
7.1		Specific notes/details: Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.	yes
7.2		Managing of associated risks	yes
7.2		- Explosive atmospheres: Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.	yes
7.2		- Flammability hazards: Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.	yes
7.2		- Ventilation requirements: Use local and general ventilation. Ground/bond container and receiving equipment.	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
9.1	Appearance		yes
9.1	Other safety parameters		yes
9.1	Flammability (solid, gas): not relevant, (fluid)	Flammability: flammable liquid in accordance with GHS criteria	yes
9.1	Flash point: not determined	Flash point: 67 °C at 1,013 hPa	yes
9.1	Evaporation rate: not determined		yes
9.1	Auto-ignition temperature	Auto-ignition temperature: not determined	yes
9.1		Decomposition temperature: not relevant	yes
9.1		Kinematic viscosity: not determined	yes
9.1		Density and/or relative density	yes
9.1	Vapor density: this information is not available		yes
9.1	Viscosity: not determined		yes
9.1	Explosive properties: not explosive (GHS of the United Nations, annex 4)		yes
9.1	Oxidizing properties: none		yes
9.1		Particle characteristics: not relevant (liquid)	yes
9.2	other information: there is no additional information	Other information	yes
9.2		Information with regard to physical hazard classes: there is no additional information	yes
9.2		Other safety characteristics: there is no additional information	yes



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
10.1	Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".	Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.	yes
10.1		If heated: Risk of ignition	yes
10.2	Chemical stability: The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	Chemical stability: See below "Conditions to avoid".	yes
10.4	Conditions to avoid: There are no specific conditions known which have to be avoided.	Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	yes
10.4		Hints to prevent fire or explosion: Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.	yes
11.1	Classification acc. to GHS: This mixture does not meet the criteria for classification.	Classification acc. to GHS	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
12.5	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 potential: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .	yes
12.7	Other adverse effects	Other adverse effects: Data are not available.	yes
13.1		Waste treatment-relevant information: Solvent reclamation/regeneration.	yes
14.1	UN number: not assigned	UN number: not subject to transport regulations	yes



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.2	UN proper shipping name: not assigned	UN proper shipping name: not relevant	yes
14.3	Transport hazard class(es): not assigned	Transport hazard class(es): none	yes
14.7	Transport information - National regulations - Additional information (UN RTDG): not assigned	Transport information - National regulations - Additional information (UN RTDG): Not subject to transport regulations: UN RTDG	yes
15.1		Toxic Substance Control Act (TSCA): not all ingredients are listed (ACTIVE)	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Toxic or Hazardous Substance List (MA-TURA): change in the listing (table)	yes
15.1		Hazardous Substances List (MN-ERTK): change in the listing (table)	yes
15.1		Hazardous Substance List (NJ-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (Chapter 323) (PA-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (RI-RTK): change in the listing (table)	yes
15.1		Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II): none of the ingredients are listed	yes
15.1		NPCA-HMIS® III: 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

### Abbreviations and acronyms



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Abbr.	Descriptions of used abbreviations
"BC Regulation"	OHS Regulation: Section 5.48 (British Columbia)
ACGIH®	American Conference of Governmental Industrial Hygienists
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
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
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
HHS	Higher hazard substance
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
MoL	Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833
NLP	No-Longer Polymer



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Eagle One Aluminum Wheel Cleaner (Before 4/29/20)

Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

Abbr.	Descriptions of used abbreviations
NOEC	No Observed Effect Concentration
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OHS Code	Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec)
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
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Hazardous Products Regulations (HPR)  
SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)  
UN Recommendations on the Transport of Dangerous Good. 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
H227	Combustible liquid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.



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acc. to Hazardous Products Regulations (HPR)

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Version number: 6.1  
Replaces version of: 2020-10-21 (5)

Revision: 2023-09-11

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