



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Eagle One Interior Detailer - Aerosol (Effective 5/6/2020)

Version number: 2.2  
Replaces version of: 2020-06-25 (1)

Revision: 2020-10-21

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **Eagle One Interior Detailer - Aerosol (Effective 5/6/2020)**  
Alternative number(s) 079933618446

#### 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)  
Website: <http://data.energizer.com>

Energizer Trading Ltd.  
Sword House, Totteridge Road, High Wycombe, HP13 6DG, UK

Telephone: +44(0)8000353376  
e-mail: [ConsumerServiceEU@energizer.com](mailto:ConsumerServiceEU@energizer.com)

#### 1.4 Emergency telephone number

Emergency information service 1-314-985-1511 Int'l: 1-800-526-4727  
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.10	acute toxicity (oral)	2	Acute Tox. 2	H300
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.5	germ cell mutagenicity	1B	Muta. 1B	H340
A.6	carcinogenicity	1A	Carc. 1A	H350
A.7	reproductive toxicity	2	Repr. 2	H361f

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Section	Hazard class	Category	Hazard class and category	Hazard statement
A.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
B.3	flammable aerosol	2	Flam. Aerosol 2	H223
B.5	gases under pressure	C	Press. Gas C	H280

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. Contains gas under pressure; may explode if heated.

**2.2 Label elements**

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

- Signal word danger

- Pictograms

GHS02, GHS04, GHS06,  
GHS07, GHS08



- Hazard statements

- H223 Flammable aerosol.
- H280 Contains gas under pressure; may explode if heated.
- H300 Fatal if swallowed.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.

- 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.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves.
- P301+P310 If swallowed: Immediately call a poison center/doctor.

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### - Precautionary statements

P302+P352	If on skin: Wash with plenty of water.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P362	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.2.1.7- Hazardous ingredients for labelling

Petroleum gases, liquefied, sweetened, n-hexane, methylcyclopentane, 2-methylpentane

### 2.3 Other hazards

Hazards not otherwise classified

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.




## 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
Petroleum gases, liquefied, sweetened	CAS No 68476-86-8	25 - < 50	Muta. 1B / H340 Carc. 1A / H350 Flam. Gas 1 / H220 Press. Gas C / H280	
n-hexane	CAS No 110-54-3	10 - < 25	Skin Irrit. 2 / H315 Repr. 2 / H361f STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225	
methylcyclopentane	CAS No 96-37-7	10 - < 25	Acute Tox. 2 / H300 Flam. Liq. 2 / H225	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
3-methylpentane	CAS No 96-14-0	5 – < 10	Acute Tox. 2 / H300 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225	
2-methylpentane	CAS No 107-83-5	5 – < 10	Acute Tox. 2 / H300 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225	
2,2-dimethylbutane	CAS No 75-83-2	5 – < 10	Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225	
2,3-dimethylbutane	CAS No 79-29-8	5 – < 10	Skin Irrit. 2 / H315 STOT SE 3 / H336 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. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Thaw frosted parts with lukewarm water. Do not rub affected area.

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**

Narcotic effects.



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### 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 spray, BC-powder

Unsuitable extinguishing media

Water jet

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

Contact with the product can cause burns and/or frostbite. Contains gas under pressure; may explode if heated.

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

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.



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### 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.

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

Level 2 Aerosol.

Managing of associated risks

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

### 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	hexane, mixture of isomers	107-83-5	PEL (CA)	500	1,800	1,000	3,600				Cal/ OSHA PEL
US	hexane, mixture of isomers	107-83-5	REL	100 (10 h)	350 (10 h)			510 (15 min)	1,800 (15 min)		NIOSH REL
US	isohexane	107-83-5	TLV®	500		1,000					AC-GIH® 2019



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### 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	n-hexane	110-54-3	PEL (CA)	50	180						Cal/OSHA PEL
US	n-hexane	110-54-3	REL	50 (10 h)	180 (10 h)						NIOSH REL
US	n-hexane	110-54-3	TLV®	50							ACGIH® 2019
US	n-hexane	110-54-3	PEL	500	1,800						29 CFR 1910.1000
US	neohexane	75-83-2	TLV®	500		1,000					ACGIH® 2019
US	diisopropyl	79-29-8	TLV®	500		1,000					ACGIH® 2019
US	C5-6 cycloalkanes	96-37-7	TLV®		1,500						ACGIH® 2019

#### 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)

### Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	n-hexane	2,5-hexanedione	no_hydr	BEI®	0.5 mg/l	ACGIH® 2019

#### Notation

no\_hydr

no hydrolysis



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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
Petroleum gases, liquefied, sweetened	68476-86-8	DNEL	23.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,2-dimethylbutane	75-83-2	DNEL	5,306 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
2,2-dimethylbutane	75-83-2	DNEL	13,964 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,3-dimethylbutane	79-29-8	DNEL	5,306 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
2,3-dimethylbutane	79-29-8	DNEL	13,964 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

### 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

In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### - Other protection measures

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

##### Respiratory protection

During spraying wear suitable respiratory equipment.

##### Environmental exposure controls

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





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### SECTION 9: Physical and chemical properties

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

##### Appearance

Physical state	aerosol (spray aerosol)
Color	various
Odor	characteristic

##### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	-161.5 °C at 1,013 hPa
Flash point	-47 °C at 760 mmHg
Evaporation rate	not determined
Flammability (solid, gas)	flammable aerosol in accordance with GHS criteria

##### Explosive limits

- Lower explosion limit (LEL)	5 vol%
- Upper explosion limit (UEL)	15 vol%

Vapor pressure	59.89 PSI at 20 °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
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Auto-ignition temperature	315 °C (auto-ignition temperature (liquids and gases))
Viscosity	not relevant (aerosol)
Explosive properties	none
Oxidizing properties	none

### 9.2 Other information

Propellant content	30 %
Temperature class (USA, acc. to NEC 500)	T2 (maximum permissible surface temperature on the equipment: 300°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). Gas under pressure. Risk of ignition.

If heated:

Danger of explosion, Gas under pressure, Danger of bursting container

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

### 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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### 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 swallowed.

##### - Acute toxicity estimate (ATE)

Oral 47.38 mg/kg

##### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
methylcyclopentane	96-37-7	oral	15.84 mg/kg
3-methylpentane	96-14-0	oral	15.84 mg/kg
2-methylpentane	107-83-5	oral	15.84 mg/kg

##### Skin corrosion/irritation

Causes skin irritation.

##### 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

May cause genetic defects.

##### Carcinogenicity

May cause cancer.

##### Reproductive toxicity

Suspected of damaging fertility.

##### Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

##### Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.



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### 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
Petroleum gases, liquefied, sweetened	68476-86-8	LC50	49.47 mg/l	fish	96 h
Petroleum gases, liquefied, sweetened	68476-86-8	EC50	12.32 mg/l	algae	96 h
methylcyclopentane	96-37-7	LC50	4.45 mg/l	aquatic invertebrates	48 h
methylcyclopentane	96-37-7	EC50	5.048 mg/l	algae	96 h
3-methylpentane	96-14-0	LC50	3.649 mg/l	aquatic invertebrates	48 h
3-methylpentane	96-14-0	EC50	4.321 mg/l	algae	96 h
2-methylpentane	107-83-5	LC50	3.649 mg/l	aquatic invertebrates	48 h
2-methylpentane	107-83-5	EC50	4.321 mg/l	algae	96 h
2,2-dimethylbutane	75-83-2	LL50	2.12 mg/l	fish	96 h
2,2-dimethylbutane	75-83-2	EL50	3.68 mg/l	aquatic invertebrates	48 h
2,3-dimethylbutane	79-29-8	LL50	2.12 mg/l	fish	96 h
2,3-dimethylbutane	79-29-8	EL50	3.68 mg/l	aquatic invertebrates	48 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

Data are not available.



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### 12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

## 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

Only packagings which are approved (e.g. acc. to DOT) may be used. 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	<b>UN number</b>	1950
14.2	<b>UN proper shipping name</b>	Aerosols
14.3	<b>Transport hazard class(es)</b>	
	Class	2.1 (gases) (aerosol) (flammable)
	Subsidiary risk(s)	6.1 (acute toxicity)
14.4	<b>Packing group</b>	not assigned to a packing group
14.5	<b>Environmental hazards</b>	hazardous to the aquatic environment
	Environmentally hazardous substance (aquatic environment)	n-hexane
14.6	<b>Special precautions for user</b>	
	There is no additional information.	
14.7	<b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
	The cargo is not intended to be carried in bulk.	

### Information for each of the UN Model Regulations

DOT



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

Index number	1950
Proper shipping name	Aerosols
- Particulars in the shipper's declaration	UN1950, Aerosols, 2.1 (6.1), environmentally hazardous
- Reportable quantity (RQ)	20,258 lbs (9,197 kg) (n-hexane) (cyclohexane)
Class	2.1
Subsidiary risk(s)	6.1
Danger label(s)	2.1+6.1, fish and tree



Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	N82
ERG No	126

### International Maritime Dangerous Goods Code (IMDG)

UN number	1950
Proper shipping name	AEROSOLS
- Particulars in the shipper's declaration	UN1950, AEROSOLS, (n-hexane), 2.1 (6.1), -47°C c.c., MARINE POLLUTANT
Class	2.1
Subsidiary risk(s)	6.1
Marine pollutant	yes (hazardous to the aquatic environment)
Danger label(s)	2.1+6.1, fish and tree



Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	120 mL
EmS	F-D, S-U
Stowage category	-



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

UN number	1950
Proper shipping name	Aerosols, flammable, containing substances in division 6.1, packing group III
- Particulars in the shipper's declaration	UN1950, Aerosols, flammable, containing substances in division 6.1, packing group III, 2.1 (6.1)
Class	2.1
Subsidiary risk(s)	6.1
Environmental hazards	YES (hazardous to the aquatic environment)
Danger label(s)	2.1+6.1
	
Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

### SECTION 15: Regulatory information

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

##### National regulations (United States)

##### 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
n-hexane	110-54-3		1995-01-01

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

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



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Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
n-hexane	110-54-3		3	5000 (2270)

Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

### 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	Name acc. to inventory	CAS No	Functional-ity	Authoritative Lists
Petroleum gases, liquefied, sweetened	Petroleum gases, liquefied, sweetened	68476-86-8		EC Annex VI CMRs - Cat. 1B
n-Hexane	n-Hexane	110-54-3	propellant	ATSDR Neurotoxics CA TACs CWA 303(d) IRIS Neurotoxics OEHA RELs Prop 65
Decamethyltetrasiloxane		141-62-8	emulsifier	
Methylcyclopentane	Methylcyclopentane	96-37-7		CDC 4th National Exposure Report
Mineral Oil		8042-47-5	solvents	
Cyclohexane		110-82-7	nonfunctional contaminant	
Heptane	Heptane	142-82-5	propellant	CDC 4th National Exposure Report
Sorbitan monolaurate, ethoxylated		9005-64-5	preservative	
Solvent naphtha (petroleum), light aliph.	Solvent naphtha (petroleum), light aliph.	64742-89-8		EC Annex VI CMRs - Cat. 1B
Aqueous solution of acrylic polymers		Proprietary	surfactant	





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

Name of substance	Name acc. to inventory	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Thres hold	De Minimis Concentration Threshold
cyclohexane	Cyclohexane	110-82-7				1.0 %
n-hexane	Hexane	110-54-3				1.0 %

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

Name of substance	Name acc. to inventory	CAS No	References	Remarks
methylcyclopentane	Alkanes		N	
Petroleum gases, liquefied, sweetened	Alkanes		N	
3-methylpentane	Hexane, other isomers		A	
2-methylpentane	Alkanes		N	
2,2-dimethylbutane	Alkanes		N	
2,3-dimethylbutane	Alkanes		N	
n-hexane	Hexane (n-Hexane)	110-54-3	A, N, O	
n-hexane	Alkanes		N	

#### 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
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- 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

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

Name of substance	Name acc. to inventory	CAS No	Remarks	Classifications
methylcyclopentane	METHYL CYCLOPENTANE (CYCLOPENTANE, METHYL-)	96-37-7		F3
3-methylpentane	hexane, mixture of isomers			F3
2-methylpentane	2-methylpentane (isohexane)	107-83-5		F3
2,2-dimethylbutane	neohexane	75-83-2		F3
2,3-dimethylbutane	2,3-dimethylbutane	79-29-8		F3



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Name of substance	Name acc. to inventory	CAS No	Remarks	Classifications
cyclohexane	cyclohexane	110-82-7		F3
n-hexane	n-hexane (hexane)	110-54-3		F3
heptane	n-heptane (heptane)	142-82-5		F3

Legend

F3 Flammable - Third Degree

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

Name of substance	Name acc. to inventory	CAS No	Classification
methylcyclopentane	CYCLOPENTANE, METHYL-	96-37-7	
3-methylpentane	PENTANE, 3-METHYL-	96-14-0	
2-methylpentane	PENTANE, 2-METHYL-	107-83-5	
2,2-dimethylbutane	BUTANE, 2,2-DIMETHYL-	75-83-2	
2,3-dimethylbutane	BUTANE, 2,3-DIMETHYL-	79-29-8	
cyclohexane	CYCLOHEXANE	110-82-7	E
n-hexane	HEXANE	110-54-3	

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	Name acc. to inventory	CAS No	References
methylcyclopentane	methylcyclopentane	96-37-7	F
cyclohexane	Cyclohexane	110-82-7	T, F
n-hexane	Hexane	110-54-3	T, F
heptane	Heptane	142-82-5	T, 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**



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Proposition 65 List of chemicals			
Name acc. to inventory	CAS No	Remarks	Type of the toxicity
ethylbenzene	100-41-4		cancer
n-hexane	110-54-3		male
toluene	108-88-3		developmental

### 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	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	4	material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily
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	4	material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### National inventories



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Country	Inventory	Status
AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	not 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	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

### Legend

AICS	Australian Inventory of Chemical Substances
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
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.



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### 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		- Hazard statements: change in the listing (table)	yes
7.2	Conditions for safe storage, including any incompatibilities	Conditions for safe storage, including any incompatibilities: Level 2 Aerosol.	yes
9.1	Flash point: <-10 °C at 1,013 hPa	Flash point: -47 °C at 760 mmHg	yes
9.2	Solvent content: 63.9 %		yes
9.2	Solid content: 0 %		yes
14.3	Class: - (aerosol)	Class: 2.1 (gases) (aerosol) (flammable)	yes
14.3		Subsidiary risk(s): 6.1 (acute toxicity)	yes
14.7	Transport of dangerous goods by road or rail (49 CFR US DOT): Carriage prohibited.	Transport of dangerous goods by road or rail (49 CFR US DOT)	yes
14.7		Index number: 1950	yes
14.7		Proper shipping name: Aerosols	yes
14.7		Particulars in the shipper's declaration: UN1950, Aerosols, 2.1 (6.1), environmentally hazardous	yes
14.7		Reportable quantity (RQ): 20,258 lbs (9,197 kg) (n-hexane) (cyclohexane)	yes
14.7		Class: 2.1	yes
14.7		Subsidiary risk(s): 6.1	yes
14.7		Danger label(s): 2.1+6.1, fish and tree	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.7		Danger label(s): change in the listing (table)	yes
14.7		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.7		Special provisions (SP): N82	yes
14.7		ERG No: 126	yes
14.7	Particulars in the shipper's declaration: UN1950, AEROSOLS, (n-hexane), 2.1 (6.1), <-10°C c.c., MARINE POLLUTANT	Particulars in the shipper's declaration: UN1950, AEROSOLS, (n-hexane), 2.1 (6.1), -47°C c.c., MARINE POLLUTANT	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

### 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® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. 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



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Abbr.	Descriptions of used abbreviations
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity
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
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
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Flam. Gas	Flammable gas
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
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")



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Abbr.	Descriptions of used abbreviations
Muta.	Germ cell mutagenicity
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
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
ppm	Parts per million
Press. Gas	Gas under pressure
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
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).





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

Code	Text
H220	Extremely flammable gas.
H223	Flammable aerosol.
H225	Highly flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H300	Fatal if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
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.