



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Extreme Shield Protectant - Spray

Version number: 3.0
Replaces version of: 2020-06-09 (2)

Revision: 2020-10-21

SECTION 1: Identification

1.1 Product identifier

Trade name **Armor All Extreme Shield Protectant - Spray**
Alternative number(s) 067788191641, 070612191342

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

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
B.5	gases under pressure	L	Press. Gas L	H280

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Contains gas under pressure; may explode if heated. The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

2.2 Label elements

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

- Signal word warning

- Pictograms

GHS04



- Hazard statements

H280 Contains gas under pressure; may explode if heated.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P410+P403 Protect from sunlight. Store in a well-ventilated place.

2.3 Other hazards

Hazards not otherwise classified

Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.
Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Containing a PBT-/vPvB-substance 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
Alcohols, C12-15, ethoxylated	CAS No 68131-39-5	1 - < 5	Flam. Liq. 3 / H226	
Benzotriazole derivatives	CAS No Proprietary	< 1	Acute Tox. 3 / H331	
1,2-Benzisothiazolin-3-one	CAS No 2634-33-5	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
2-Methyl-4-isothiazolin-3-one	CAS No 2682-20-4	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 2 / H330 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 STOT SE 3 / H335	

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

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

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 spray, BC-powder

Unsuitable extinguishing media

Water jet



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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

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

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.

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.

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.



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7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards
Protect from sunlight.

Control of the effects

- Protect against external exposure, such as
Frost

- 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

This information is not available.

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
Alcohols, C12-15, ethoxylated	68131-39-5	DNEL	294 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Alcohols, C12-15, ethoxylated	68131-39-5	DNEL	2,080 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1,2-Benzisothiazolin-3-one	2634-33-5	DNEL	6.81 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1,2-Benzisothiazolin-3-one	2634-33-5	DNEL	0.966 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-Methyl-4-isothiazolin-3-one	2682-20-4	DNEL	0.021 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2-Methyl-4-isothiazolin-3-one	2682-20-4	DNEL	0.043 mg/m ³	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
Alcohols, C12-15, ethoxylated	68131-39-5	PNEC	0.051 mg/l	aquatic organisms	freshwater	short-term (single instance)



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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Alcohols, C12-15, ethoxylated	68131-39-5	PNEC	0.005 mg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols, C12-15, ethoxylated	68131-39-5	PNEC	10 g/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C12-15, ethoxylated	68131-39-5	PNEC	81.64 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Alcohols, C12-15, ethoxylated	68131-39-5	PNEC	8.16 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Alcohols, C12-15, ethoxylated	68131-39-5	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
1,2-Benzisothiazolin-3-one	2634-33-5	PNEC	4.03 µg/l	aquatic organisms	freshwater	short-term (single instance)
1,2-Benzisothiazolin-3-one	2634-33-5	PNEC	0.403 µg/l	aquatic organisms	marine water	short-term (single instance)
1,2-Benzisothiazolin-3-one	2634-33-5	PNEC	1.03 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,2-Benzisothiazolin-3-one	2634-33-5	PNEC	49.9 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,2-Benzisothiazolin-3-one	2634-33-5	PNEC	4.99 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
1,2-Benzisothiazolin-3-one	2634-33-5	PNEC	3 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-Methyl-4-isothiazolin-3-one	2682-20-4	PNEC	3.39 µg/l	aquatic organisms	freshwater	short-term (single instance)
2-Methyl-4-isothiazolin-3-one	2682-20-4	PNEC	3.39 µg/l	aquatic organisms	marine water	short-term (single instance)
2-Methyl-4-isothiazolin-3-one	2682-20-4	PNEC	0.23 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-Methyl-4-isothiazolin-3-one	2682-20-4	PNEC	0.047 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.



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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	gaseous (liquefied)
Color	various
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	330 K at 1,013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	this material is combustible, but will not ignite readily
Explosive limits	not determined



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Vapor pressure	not determined
Density	not determined
Vapor density	not determined
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	not determined
Viscosity	not relevant (gaseous)
Explosive properties	none
Oxidizing properties	none
9.2 Other information	there is no additional information

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.

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

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers



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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

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Benzotriazole derivatives	Proprietary	inhalation: vapor	5.8 mg/l/4h
1,2-Benzisothiazolin-3-one	2634-33-5	oral	670 mg/kg
2-Methyl-4-isothiazolin-3-one	2682-20-4	oral	120 mg/kg
2-Methyl-4-isothiazolin-3-one	2682-20-4	dermal	242 mg/kg
2-Methyl-4-isothiazolin-3-one	2682-20-4	inhalation: dust/mist	0.11 mg/l/4h

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

Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

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.



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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

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
Alcohols, C12-15, ethoxylated	68131-39-5	EC50	0.14 mg/l	aquatic invertebrates	48 h
Alcohols, C12-15, ethoxylated	68131-39-5	ErC50	0.75 mg/l	algae	72 h
Benzotriazole derivatives	Proprietary	EC50	>100 mg/l	algae	72 h
Benzotriazole derivatives	Proprietary	EC50	4 mg/l	daphnia magna	48 h
Benzotriazole derivatives	Proprietary	LC50	2.8 mg/l	fish	96 h
1,2-Benzisothiazolin-3-one	2634-33-5	LC50	16.7 mg/l	fish	96 h
1,2-Benzisothiazolin-3-one	2634-33-5	EC50	2.94 mg/l	aquatic invertebrates	48 h
1,2-Benzisothiazolin-3-one	2634-33-5	ErC50	150 µg/l	algae	72 h
2-Methyl-4-isothiazolin-3-one	2682-20-4	LC50	4.77 mg/l	fish	96 h
2-Methyl-4-isothiazolin-3-one	2682-20-4	EC50	1.7 mg/l	aquatic invertebrates	24 h
2-Methyl-4-isothiazolin-3-one	2682-20-4	ErC50	>0.072 mg/l	algae	96 h



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Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Alcohols, C12-15, ethoxylated	68131-39-5	EC50	>10 g/l	microorganisms	16.9 h
1,2-Benzisothiazolin-3-one	2634-33-5	EC50	13 mg/l	microorganisms	3 h
2-Methyl-4-isothiazolin-3-one	2682-20-4	EC50	1.4 mg/l	aquatic invertebrates	21 d
2-Methyl-4-isothiazolin-3-one	2682-20-4	ErC50	0.22 mg/l	algae	120 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

The substance fulfills the very bioaccumulative criterion.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

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.



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SECTION 14: Transport information

14.1 UN number	3159
14.2 UN proper shipping name	Refrigerant gas R 134a
14.3 Transport hazard class(es)	
Class	2.2 (gases)
14.4 Packing group	not assigned to a packing group
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 Annex II of MARPOL and the IBC Code	
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)

Index number	3159
Proper shipping name	Refrigerant gas R 134a
- Particulars in the shipper's declaration	UN3159, Refrigerant gas R 134a, 2.2
- Reportable quantity (RQ)	64,102,564 lbs (29,102,564 kg) (methanol)
Class	2.2
Danger label(s)	2.2



Special provisions (SP)	T50
ERG No	126

International Maritime Dangerous Goods Code (IMDG)

UN number	3159
Proper shipping name	1,1,1,2-TETRAFLUOROETHANE
- Particulars in the shipper's declaration	UN3159, 1,1,1,2-TETRAFLUOROETHANE, 2.2, 56.85°C c.c.
Class	2.2



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Marine pollutant -
Danger label(s) 2.2



Special provisions (SP) -
Excepted quantities (EQ) E1
Limited quantities (LQ) 120 mL
EmS F-C, S-V
Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 3159
Proper shipping name Refrigerant gas R 134a
- Particulars in the shipper's declaration UN3159, Refrigerant gas R 134a, 2.2
Class 2.2
Danger label(s) 2.2



Excepted quantities (EQ) E1

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

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List



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

Name of substance	Name acc. to inventory	CAS No	Functional-ity	Authoritative Lists
Water		7732-18-5	solvents	
Silicone compound		63148-62-9	water repel- lent	
Alcohols, C12-15, ethoxylated		68131-39-5	surfactant	
Siloxanes and Silicones, di-Me, polymers with 3-[(2-aminoethyl)amino]propyl silsesquioxanes, hydroxy-terminated		68554-54-1	film former	
Triethanolamine		102-71-6	pH Adjuster	
Benzotriazole derivatives		Propriet- ary	polymer	
Glycol		Propriet- ary	solvents	
2-Propenoic acid, 2-methyl-, polymers with Et acrylate and polyethylene glycol methacrylate C16-18-alkyl ethers		70879-60-6	fragrance	
Water		7732-18-5	solvents	
Octamethylcyclotetrasiloxane	Octamethylcyclotetrasiloxane (D4)	556-67-2	emulsifier	Canada PBiTs CECBP - Priority Chemicals EC PBTs
Ethoxylated branched C11-14, C13-rich alcohols		78330-21-9	surfactant	
Hexadecyl-trimethylammonium-chloride		112-02-7	surfactant	
Decamethylcyclopentasiloxane	decamethylcyclopentasiloxane (D5)	541-02-6	emulsifier	Canada PBiTs CECBP - Priority Chemicals EC PBTs
Hexadecyltrimethylammonium acetate		51374-75-5	water repel- lent	
Surfactant		Propriet- ary	surfactant	
1,2-Benzisothiazolin-3-one		2634-33-5	preservative	
2-Methyl-4-isothiazolin-3-one		2682-20-4	preservative	



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- Hazardous Substance List (NJ-RTK)

Name of substance	Name acc. to inventory	CAS No	Remarks	Classifications
Triethanolamine	triethanolamine	102-71-6		

- Hazardous Substance List (RI-RTK)

Name of substance	Name acc. to inventory	CAS No	References
Triethanolamine	Triethanolamine	102-71-6	F

Legend

F Flammability (NFPA®)

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
methanol	67-56-1		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	0	no significant risk to health
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	1	material that is normally stable but can become unstable (self-react) at high temperatures and pressures. Material may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors
Personal protection	-	

NFPA® 704

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



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Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
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

Country	Inventory	Status
AU	AICS	not all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	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	all ingredients are listed
US	TSCA	not 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
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



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Legend

TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

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

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): This mixture does not meet the criteria for classification.	Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)	yes
2.1		Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table)	yes
2.1	The most important adverse physicochemical, human health and environmental effects: The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).	The most important adverse physicochemical, human health and environmental effects: Contains gas under pressure; may explode if heated. The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).	yes
2.2	- Signal word: not required	- Signal word: warning	yes
2.2	- Pictograms: not required	- Pictograms	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
2.3	Other hazards: There is no additional information.	Other hazards	yes
3.2		Description of the mixture: change in the listing (table)	yes
4.1	Following skin contact: Wash with plenty of soap and water.	Following skin contact: Thaw frosted parts with lukewarm water. Do not rub affected area.	yes



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5.1	Suitable extinguishing media: Water spray, BC-powder, Carbon dioxide (CO2)	Suitable extinguishing media: Water spray, BC-powder	yes
5.2	Special hazards arising from the substance or mixture	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.	yes
6.3	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		yes
6.3	Appropriate containment techniques: Use of adsorbent materials.		yes
7.2		Managing of associated risks	yes
7.2		- Flammability hazards: Protect from sunlight.	yes
7.2		- Packaging compatibilities: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.	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
8.2	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.	Hand protection: Wear protective gloves.	yes
9.1	Physical state: liquid	Physical state: gaseous (liquefied)	yes
9.1	Flash point: not determined	Flash point: 330 K at 1,013 hPa	yes
9.1	Flammability (solid, gas): not relevant, (fluid)	Flammability (solid, gas): this material is combustible, but will not ignite readily	yes
9.1	Vapor density: this information is not available	Vapor density: not determined	yes



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9.1	Viscosity: not determined	Viscosity: not relevant (gaseous)	yes
9.2	Other information	other information: there is no additional information	yes
9.2	Solvent content: 99.72 %		yes
9.2	Solid content: 0.2549 %		yes
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). Gas under pressure.	yes
10.1		If heated: Danger of explosion, Gas under pressure, Danger of bursting container	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
11.1	Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): This mixture does not meet the criteria for classification.	Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)	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
13.1	Waste treatment of containers/packages: Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	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.	yes
14.1	UN number: not subject to transport regulations	UN number: 3159	yes
14.2	UN proper shipping name: not assigned	UN proper shipping name: Refrigerant gas R 134a	yes



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14.3	Transport hazard class(es): not assigned	Transport hazard class(es)	yes
14.3		Class: 2.2 (gases)	yes
14.4	Packing group: not assigned	Packing group: not assigned to a packing group	yes
14.7	Transport of dangerous goods by road or rail (49 CFR US DOT): Not subject to transport regulations.	Transport of dangerous goods by road or rail (49 CFR US DOT)	yes
14.7		Index number: 3159	yes
14.7		Proper shipping name: Refrigerant gas R 134a	yes
14.7		Particulars in the shipper's declaration: UN3159, Refrigerant gas R 134a, 2.2	yes
14.7		Reportable quantity (RQ): 64,102,564 lbs (29,102,564 kg) (methanol)	yes
14.7		Class: 2.2	yes
14.7		Danger label(s): 2.2	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Special provisions (SP): T50	yes
14.7		ERG No: 126	yes
14.7	International Maritime Dangerous Goods Code (IMDG): Not subject to IMDG.	International Maritime Dangerous Goods Code (IMDG)	yes
14.7		UN number: 3159	yes
14.7		Proper shipping name: 1,1,1,2-TETRAFLUOROETHANE	yes
14.7		Particulars in the shipper's declaration: UN3159, 1,1,1,2-TETRAFLUOROETHANE, 2.2, 56.85°C c.c.	yes
14.7		Class: 2.2	yes



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14.7		Marine pollutant: -	yes
14.7		Danger label(s): 2.2	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Special provisions (SP): -	yes
14.7		Excepted quantities (EQ): E1	yes
14.7		Limited quantities (LQ): 120 mL	yes
14.7		EmS: F-C, S-V	yes
14.7		Stowage category: A	yes
14.7	International Civil Aviation Organization (ICAO-IATA/DGR): Not subject to ICAO-IATA.	International Civil Aviation Organization (ICAO-IATA/DGR)	yes
14.7		UN number: 3159	yes
14.7		Proper shipping name: Refrigerant gas R 134a	yes
14.7		Particulars in the shipper's declaration: UN3159, Refrigerant gas R 134a, 2.2	yes
14.7		Class: 2.2	yes
14.7		Danger label(s): 2.2	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Excepted quantities (EQ): E1	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (NJ-RTK): change in the listing (table)	yes



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15.1		Hazardous Substance List (RI-RTK): change in the listing (table)	yes
15.1		California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987	yes
15.1		Proposition 65 List of chemicals: change in the listing (table)	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

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
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
EmS	Emergency Schedule
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
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye



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Abbr.	Descriptions of used abbreviations
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NFPA®	National Fire Protection Association (United States)
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
PNEC	Predicted No-Effect Concentration
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure
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
H226	Flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.

Disclaimer

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