



# Natural Fuel Cell Aerosol Safety Data Sheet

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name** Natural Fuel Cell Aerosol 500ml  
(For Chameleon and Salamander machines)  
**Product number** 4002/GS0007N

### 1.2. Relevant identified uses of the substance or mixture

**Identified Uses** Professional use  
**Uses Advised Against** Applications which do not fulfill the above-mentioned purpose.

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

Green Star,  
Steenpad 21H,  
4797 SG Willemstad,  
Netherlands.

Tel: +31 168 473 194  
Email: [info@green-star.nl](mailto:info@green-star.nl) (competent person)  
Web: <https://www.green-star.nl>

### 1.4. Emergency telephone Nos

+31 168 473 194  
During office hours: Mon-Fri  
09.00-17.00

### United States

Poison Centre, ChemTel Inc  
Tel: 1 800 255 3924  
International: +1 813 248 0585

## Section 2: Hazards identification

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

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

**Section:** B.3

**Hazard Class:** Flammable Aerosol

**Category:** 1

**Hazard Class & Category:** Flam. Aerosol 1

**Hazard statement:** H222

**Section:** B.5

**Hazard Class:** Gases under pressure

**Category:** C

**Hazard Class & Category:** Press. Gas C

**Hazard statement:** H280

#### Additional information

For full text of H-phrases, see Section 16

### 2.2 Label elements

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

#### Hazard pictograms



GHS02



GHS04

**Signal word**

Danger

#### Hazard statements

**H222**

Extremely flammable aerosol.

**H280**

Contains gas under pressure; may explode if heated.

#### Precautionary statements:

**P210**

Keep away from heat, hot surfaces, sparks, naked flames and other ignition sources. Do not smoke.

**P211**

Do not spray on a naked flame or other ignition source.

**P251**

Pressurized container. Do not pierce or burn, even after use.

**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.

### 2.3 Other hazards

There is no additional information.

#### Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be PBT or vPvB  $\geq 0.1\%$

#### Endocrine disrupting properties

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

## Section 3: Composition/information on ingredients

### 3.1. Substances

Not relevant (mixture).

### 3.2. Mixtures

This product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product, and hence require reporting in this section.

Substance name	Identifier CAS No	Wt%	GHS Classification	Pictograms	Notes
Propane	74-98-6	25-<50	sA OSHA002 Flam. Gas 1 H220 Press. Gas C H280	 	U(b)
Butane	106-97-8	50-<75	Flam. Gas 1 H220 Press. Gas C H280	 	U(b)

#### Notes

U(b) The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged.

#### Additional information

All percentages given are percentages by weight unless stated otherwise. For full text of H-phrases see Section 16.

## Section 4: First aid measure

### 4.1. Description of first aid measures

#### General information

Do not leave affected person unattended and remove from the danger area. If unconscious, place in the recovery position. Never give anything by mouth. Remove all contaminated clothing immediately. If case of doubt, or if symptoms persist, seek medical attention immediately.

#### After inhalation

Provide fresh air. In case of shortness of breath or if breathing has stopped, seek medical attention immediately and administer first aid. In case of respiratory tract irritation, consult a doctor.

#### After skin contact

Wash off immediately with plenty of soap and water. Thaw frosted parts with lukewarm water. Do not rub affected area. If a rash or skin irritation occurs, seek medical attention.

#### After eye contact

Rinse eye(s) thoroughly with plenty of clean, fresh water for at least 15 minutes, holding eyelids apart. Remove any contact lenses if present and if this can be done safely. Continue to rinse. If eye irritation persists, consult an eye specialist as soon as possible.

#### After swallowing

Rinse mouth thoroughly with water if person is conscious. Never give anything by mouth to an unconscious person. If feeling unwell, call a doctor immediately.

### 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

For specialist advice, medical doctors should contact the poison centre.

## Section 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents

Use water spray or dry chemical extinguishers. Firefighting measures should be appropriate to surroundings.

#### For safety reasons, unsuitable extinguishing agents

Water jet

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

Contact with the product can cause burns and/or frostbite.

#### **Hazardous combustion products**

Contains gas under pressure: may explode if heated.

### **5.3 Advice for firefighters**

In case of fire and/or explosion, do not inhale fumes. Firefighting measures should be chosen in accordance with surroundings. Collect contaminated firewater separately and do not allow to enter drains or water courses. Fight fire from a safe distance and while taking usual precautions.

#### **Special protective equipment for firefighters**

Self-contained breathing apparatus (SCBA) and standard protective clothing for firefighters.

## **Section 6: Accidental release measures**

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

#### **Non-emergency personnel**

Remove people to safety and keep away from and upwind of spill/leak. Ventilate affected area.

#### **Emergency personnel**

Wear breathing apparatus if exposed to vapours/dust/aerosols/gases. Wear personal protective equipment/face protection.

### **6.2 Environmental precautions**

Keep away from drains, surface and ground water. Collect and dispose of contaminated firewater.

### **6.3 Methods and materials 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.

#### Reference to other sections

See Section 5 for hazardous combustion products.

See Section 8 for personal protective equipment.

See Section 10 for incompatible materials.

See Section 13 for disposal considerations.

## **Section 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Recommended measures to prevent fire as well as aerosol and dust generation**

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

#### **Advice on occupational hygiene**

Wash hands after use. Do not eat, drink or smoke in work areas. Remove all 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 usually used for food and drink. Keep away from food, drink and animal foodstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

### Management of associated risks

- Flammability hazards  
Keep away from heat, hot surfaces, sparks, naked flames and other ignition sources. Do not smoke. Take precautionary measures against static discharge. Do not spray on a naked flame or other ignition source. Protect from sunlight.
- Incompatible substances or mixtures  
Keep away from acids, alkalis and oxidizing substances.

### Control of effects

- Protect from external exposure such as high temperatures and UV-radiation/sunlight.

### Other considerations

- Store in a well-ventilated place. Keep containers tightly sealed.
- Only store in original packaging/containers.

## 7.3 Specific end use(s)

There is no additional information.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National limit values

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> ]	Notation	Source
US	n-butane	106-97-8	TLV®			1,000		E	ACGIH® 2022
US	propane	74-98-6	PEL	1,000	1,800				29 CFR 1910.1000
US	propane	74-98-6	TLV®					oxygen, Simple Asp., E	ACGIH® 2022

#### Notation

E explosive

oxygen adequate oxygen delivery to the tissues is necessary for sustaining life.

Simple Asp. simple asphyxiants

STEL 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/DMELs/PNECs and other threshold levels

No data available.

### 8.2. Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Personal protective equipment

- Eye/face protection  
Use safety goggles with side protection
- Skin protection  
Chemical protective clothing
- Hand protection  
Wear suitable gloves. Suitability not only depends on the material but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- Type of material  
Nitrile rubber.
- Material thickness  
Use gloves with a minimum material thickness of  $\geq 0.38\text{mm}$
- Breakthrough time of the glove material  
Use gloves with a minimum breakthrough time of the glove material of  $>480$  minutes (permeation level 6).
- Other protection measures  
Take recovery periods for skin regeneration. Use of preventative skin protection e.g. barrier creams or ointments, is recommended. Wash hands thoroughly after use. Provision of eyewash stations and safety showers in the workplace.



#### Respiratory protection

During spraying, wear suitable respiratory equipment. In poorly ventilated areas, wear respiratory protection. Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White). Observe the OSHA respirator regulations cited in 29 CFR 1910.134 and use NIOSH/MSHA approved respirators.

#### Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

## Section 9: Physical and chemical properties

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

<b>Physical state</b>	Aerosol (spray aerosol)
<b>Colour</b>	Various
<b>Particle</b>	Not relevant (aerosol)
<b>Odour</b>	Characteristic

<b>Melting/freezing point</b>	-187.6 °C at 1.013 hPa calculated value, referring to a component of the mixture
<b>Boiling point/initial boiling point/boiling range</b>	-161.5 °C at 1.013 hPa calculated value referring to a component of the mixture
<b>Flammability</b>	Flammable aerosol in accordance with GHS criteria
<b>Explosive limits</b>	LEL: 5 vol% UEL: 15 vol% calculated value, referring to a component of the mixture
<b>Flash point</b>	-88.6 °C at 1.013 hPa (fluid) calculated value
<b>Evaporation rate</b>	Not determined
<b>Auto-ignition temperature</b>	537 °C (auto-ignition temperature (liquid and gases)) calculated value referring to a component of the mixture
<b>Decomposition temperature</b>	No data available
<b>pH (value)</b>	Not determined
<b>Solubility</b>	Not determined
<b>n-octanol/water (log KOW)</b>	No available information
<b>Vapour pressure</b>	Not determined
<b>Density</b>	Not determined
<b>Vapour density</b>	No available information
<b>Viscosity</b>	Not relevant (aerosol)
<b>Kinematic viscosity</b>	Not relevant
<b>Explosive properties</b>	None
<b>Oxidising properties</b>	None

## **9.2 Other information**

There is no additional information.

<b>Propellant content</b>	100%
<b>Temperature class (USA, acc. to NEC 500)</b>	T1 (maximum permissible surface temperature on the equipment: 450°C)

## **Section 10: Stability and reactivity**

### **10.1 Reactivity**

The mixture contains reactive substance(s). Risk of ignition. If heated, danger of explosion. Gas under pressure. Danger of bursting container.

### **10.2 Chemical stability**

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### **10.3 Possibility of hazardous reactions**

No known hazardous reactions.

### **10.4 Conditions to avoid**

Do not spray on a naked 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.

## **Section 11: Toxicological information**

### **11.1 Information on toxicological effects**

Test data for the complete mixture are not available.

#### Classification procedure

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

### **Classification according to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

<b>Acute toxicity</b>	Shall not be classified as acutely toxic.
<b>Skin corrosion/irritation</b>	Shall not be classified as corrosive/irritant to skin
<b>Serious eye damage/eye irritation</b>	Shall not be classified as seriously damaging to the eye or eye irritant
<b>Respiratory or skin sensitisation</b>	Shall not be classified as a respiratory or skin sensitiser
<b>Germ cell mutagenicity</b>	Shall not be classified as germ cell mutagenic
<b>Carcinogenicity</b>	Shall not be classified as carcinogenic
<b>Reproductive toxicity</b>	Shall not be classified as a reproductive toxicant
<b>Specific target organ toxicity – single exposure</b>	Shall not be classified as a specific target organ toxicant- (single exposure)
<b>Specific target organ toxicity – repeated exposure</b>	Shall not be classified as a specific target organ toxicant- (repeated exposure)
<b>Aspiration hazard</b>	Shall not be classified as presenting an aspiration hazard

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

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

## **Section 12: Ecological information**

### **12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

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

<b>Substance name</b>	<b>CAS No.</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Exposure time</b>
<i>Propane</i>	<i>74-98-6</i>	<i>LC50</i>	<i>49.9 mg/l</i>	<i>Fish</i>	<i>96 h</i>
<i>Propane</i>	<i>74-98-6</i>	<i>EC50</i>	<i>19.37 mg/l</i>	<i>Algae</i>	<i>96 h</i>
<i>Butane</i>	<i>106-97-8</i>	<i>LC50</i>	<i>49.9 mg/l</i>	<i>Fish</i>	<i>96 h</i>
<i>Butane</i>	<i>106-97-8</i>	<i>EC50</i>	<i>19.37 mg/l</i>	<i>Algae</i>	<i>96 h</i>

### **Biodegradation**

The relevant substances of the mixture are readily biodegradable.

### **12.2 Persistence and degradability**

No available data.

### **12.3 Bioaccumulative potential**

No available data.

### **12.4 Mobility in soil**

No available data.

### **12.5 Results of PBT and vPvB assessment**

Does not contain any substances that are assessed to be PBT or vPvB  $\geq 0.1$  %.

### **12.6 Endocrine disrupting properties**

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

### **12.7 Other adverse effects**

No available data.

## **Section 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment.

**Waste treatment of containers/packaging**

Completely empty packaging may be recycled. Handle contaminated packaging in the same way as the substance itself.

**Remarks**

Please adhere to the relevant national or regional policies. Waste should be separated into categories manageable by local or national waste management facilities.

**Section 14: Transport information**

**14.1 UN number or ID number**

DOT	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

**14.2 UN proper shipping name**

DOT	Aerosols each not exceeding 1 l capacity
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

**14.3 Transport hazard class(es)**

DOT	2.1
IMDG-Code	2.1
ICAO-TI	2.1

**14.4 Packing group** Not assigned

**14.5 Environmental hazards** Non-environmentally hazardous according to the dangerous goods regulations

**14.6 Special precautions for user**

There is no additional information.

**14.7 Maritime transport in bulk according to IMO instruments**

No available data.

**Information for each of the UN Model Regulations**

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

<b>Particulars in the shipper's declaration</b>	UN1950, Aerosols 2.1
<b>Danger label(s)</b>	2.1



<b>Special provisions (SP)</b>	N82
<b>ERG No</b>	126

International Maritime Dangerous Goods Code (IMDG) - additional information

**Marine pollutant** -  
**Danger label(s)** 2.1



**Special provisions (SP)** 63, 190, 277, 327, 344, 381, 959  
**Excepted quantities (EQ)** E0  
**Limited quantities (LQ)** 1 l  
**EmS** F-D, S-U  
**Stowage category** -

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

**Danger label(s)** 2.1



**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/legislation for the product in question**  
**National Regulations (United States)**

**Toxic Substance Control Act (TSCA)** All ingredients are listed.

**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

Name of substance	CAS No	Type of registration	Basis for listing	Threshold quantity (lbs)
<i>Butane</i>	106-97-8	<i>Flammable substance</i>	<i>f</i>	10,000
<i>Propane</i>	74-98-6	<i>Flammable substance</i>	<i>f</i>	10,000

#### Legend

f Flammable gas

### **Right to Know Hazardous Substance List**

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

Name acc. to inventory	CAS No	Functionality	Authoritative Lists
<i>Butane</i> (containing = 0,1 % butadiene (203- 450-8))	106-97-8		<i>EC Annex VI CMRs - Cat. 1A</i> <i>EC Annex VI CMRs - Cat. 1B</i>

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

None of the ingredients are listed.

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

Name acc. to inventory	CAS No	References	Remarks
<i>Butane</i>	106-97-8	A	
<i>Alkanes</i>		N	
<i>Propane</i>	74-98-6	A, O	
<i>Alkanes</i>		N	
<i>Gases, Simple Asphyxiants</i>		A	<i>Gases</i>

#### 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.  
 Gases Refers to displacement of air asphyxiation hazard.  
 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 acc. to inventory	CAS No	Remarks	Classifications
<i>Butane</i>	106-97-8		<i>F4</i>
<i>Propane</i>	74-98-6		<i>F4</i>

#### Legend

F4 Flammable - Fourth Degree

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

Name acc. to inventory	CAS No	Classification
Butane	106-97-8	
Propane	74-98-6	

### Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
Butane	106-97-8	T, F
Propane	74-98-6	T

#### Legend

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

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

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	/	None
Health	0	No significant risk to health
Flammability	4	Material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burns 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 burns readily.
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		

## **15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## Section 16: Other information

### Abbreviations and acronyms

- **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® 2022:** From ACGIH®, 2022 TLVs® and BEIs® Book. Copyright 2022. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®:  
<https://www.acgih.org/science/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-policy-statement/>
- **CAS:** Chemical Abstracts Service (division of the American Chemical Society) that maintains the most comprehensive list of chemical substances.
- **DGR:** Dangerous Goods Regulations (see IATA/DGR)
- **DMEL:** Derived Minimal Effect Level
- **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.
- **EmS:** Emergency Schedule
- **ERG No:** Emergency Response Guidebook - Number
- **Flam. Gas:** Flammable Gas
- **GHS:** Globally Harmonised System of Classification and Labelling of Chemicals, developed by the United Nations.
- **IATA:** International Air Transport Association
- **IATA/DGR:** Dangerous Goods Regulation (DGR) for air transport (IATA)
- **ICAO:** International Civil Aviation Organization
- **ICAO-TI:** Technical instructions for the safe transport of dangerous goods by air
- **IMDG:** International Maritime Code for Dangerous Goods
- **IMDG-Code:** International Maritime Code for Dangerous Goods
- **LC50:** Lethal concentration, 50 %. The LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval.
- **LEL:** Lower explosion limit (LEL)
- **NFPA®:** National Fire Protection Association (United States)
- **NPCA-HMIS® III:** National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition.
- **OSHA:** Occupational Safety and Health Administration (United States)
- **PBT:** Persistent, Bioaccumulative and Toxic
- **PEL:** Permissible exposure limit
- **PNEC:** Predicted No-effect Concentration.
- **Ppm:** Parts per million
- **Press. Gas:** Gas under pressure
- **RTECS:** Registry of Toxic Effects of Chemical Substances (NIOSH database with toxicological information)
- **sA:** Simple asphyxiants
- **STEL:** Short-term exposure limit
- **TLV®:** Threshold Limit Values
- **TWA:** Time-weighted average
- **UEL:** Upper explosion limit (UEL)
- **vPvB:** Very Persistent and Very Bioaccumulative

## **Further information**

### **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 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 Sections 2 and 3)**

- H220** Extremely flammable gas
- H222** Extremely flammable aerosol
- H280** Contains gas under pressure: may explode if heated.
- OSHA002** May displace oxygen and cause rapid suffocation.

### **Other information**

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. It only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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If you have purchased the product for supply to a third party, it is your responsibility to take all necessary steps to ensure that any person handling and using the product is provided with the information in this sheet.