

Safety data sheet
 according to 1907/2006/EC, Article 31

Printing date 26.10.2023

Version number 3 (replaces version 2)

Revision: 24.10.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
 - **Trade name: Markierspray leuchtrot**
 - **UFI: VGA0-W0YS-C002-HNDD**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 No further relevant information available.
 - **Application of the substance / the mixture** Marker Spray (Aerosol)
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
 Fermit GmbH
 Zur Heide 4,
 D- 53560 Vettelschoß
 www.fermit.de
 - **Informing department:**
 Tel.: +49 (0) 2645-2207
 Fax: +49 (0) 2645-3113
 Email: info@fermit.de
- **1.4 Emergency telephone number:** Tel.: +49 (0) 2645-2207

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

 Eye Irrit. 2 H319 Causes serious eye irritation.
 STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
 acetone
 ethyl acetate
- **Hazard statements**
 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

- **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of the substances listed below including additives not requiring identification.

- **Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-X	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25 - 50%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-X	isobutane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25 - 50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-X	propane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10 - 25%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46-X	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	10 - 25%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **After inhalation**

Supply fresh air.

In case of persistent symptoms consult doctor.

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- **After skin contact**
Wash with water and soap.
In cases of freeze burns, rinse with plenty of water. Do not remove clothing.
- **After eye contact**
Rinse opened eye for several minutes under running water.
In case of permanent aches and pains please go and see the doctor.
- **After swallowing** Swallowing is not considered to be a possible way of exposure.
- **4.2 Most important symptoms and effects, both acute and delayed**
drowsiness
Dazed
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
During incomplete combustion carbon monoxide can be formed.
Pressure build-up and risk of bursting when heated.
Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.
- **5.3 Advice for firefighters**
 - **Protective equipment:**
Do not inhale explosion gases or combustion gases.
In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.
 - **Additional information**
Cool endangered containers with water spray.
Remove goods in stock from incendiary zone, if possible.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from sources of ignition - No smoking.
Avoid contact to eyes, skin and clothes.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Damp down gases/fumes/haze with water spray jet.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
Keep empty containers away from heat and ignition sources.
Do not spray into the eyes.

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- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use.
Do not spray on flames or red-hot objects.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
 - **Requirements to be met by storerooms and containers:**
Observe official regulations on storing packagings with pressurised containers.
 - **Information about storage in one common storage facility:**
Keep away from food, drink and animal feeding stuffs.
Do not store together with oxidizing or self-igniting substances.
 - **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
WEL: workplace exposure limit
OEL: Occupational Exposure Limit
IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

67-64-1 acetone

IOELV (European Union)	Long-term value: 1210 mg/m ³ , 500 ppm
WEL (Great Britain)	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm

141-78-6 ethyl acetate

IOELV (European Union)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
WEL (Great Britain)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm

· DNELs

67-64-1 acetone

Oral	DNEL (consumer, long-term, systemic)	62 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	186 mg/kg bw/day (human)
Inhalative	DNEL (consumer, long-term, systemic)	62 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	1,210 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	200 mg/m ³ (human)
	DNEL (worker, short-term, local)	2,420 mg/m ³ (human)

141-78-6 ethyl acetate

Oral	DNEL (consumer, long-term, systemic)	4.5 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	63 mg/kg bw/day (human)
Inhalative	DNEL (consumer, long-term, systemic)	37 mg/kg bw/day (human)
	DNEL (worker, short-term, systemic)	1,468 mg/m ³ (human)
	DNEL (worker, long-term, systemic)	734 mg/m ³ (human)
	DNEL (consumer, short-term, systemic)	734 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	367 mg/m ³ (human)
	DNEL (worker, short-term, local)	1,468 mg/m ³ (human)

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	DNEL (worker, long-term, local)	734 mg/m ³ (human)
	DNEL (consumer, short-term, local)	734 mg/m ³ (human)
	DNEL (consumer, long-term, local)	367 mg/m ³ (human)

· **PNECs**

67-64-1 acetone

PNEC aqua (freshwater)	10.6 mg/L (.)
PNEC aqua (marine water)	1.06 mg/L (.)
PNEC STP - Sewage Treatment Plant	100 mg/L (.)
PNEC soil	29.5 mg/kg soil dw (.)
PNEC sediment (freshwater)	30.4 mg/kg sedim. dw (.)
PNEC sediment (marine water)	3.04 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	21 mg/L (.)

141-78-6 ethyl acetate

PNEC aqua (freshwater)	0.24 mg/L (.)
PNEC aqua (marine water)	0.024 mg/L (.)
PNEC STP - Sewage Treatment Plant	650 mg/L (.)
PNEC soil	0.148 mg/kg soil dw (.)
PNEC sediment (freshwater)	1.15 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.115 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	1.65 mg/L (.)
PNEC oral	0.2 mg/kg food (.)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

- Avoid contact with the eyes and skin.
- Do not eat, drink or smoke while working.
- Wash hands during breaks and at the end of the work.
- Do not inhale gases / fumes / aerosols.

· **Breathing equipment:**

- Not necessary if room is well-ventilated.
- Use breathing protection in case of insufficient ventilation.
- Filter Type A.

· **Hand protection**

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend 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 can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

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- **Eye/face protection**



Tightly sealed safety glasses.

- **Body protection:**

Wear antistatic clothing made from natural fibres (cotton) or heat-resistant synthetic fibres.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

· Physical state	Aerosol
· Colour:	Red
· Odour:	Characteristic
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	Not applicable, as aerosol
· Lower and upper explosion limit	
· Lower:	1.5 Vol %
· Upper:	13 Vol %
· Flash point:	Not applicable, as aerosol
· SADT	
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Not miscible or difficult to mix
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C	0.963 g/cm ³

- **9.2 Other information**

· Appearance:	
· Form:	Aerosol
· Important information on protection of health and environment, and on safety.	
· Explosive properties:	Not determined.
· Solvent content:	
· Organic solvents:	20 - 50 %
· VOC EU	609 g/l
· VOC EU	89 %

- **Information with regard to physical hazard classes**

· Explosives	Void
· Flammable gases	Void
· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void

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· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
Avoid direct sunlight, heat and ignition sources.
- **10.3 Possibility of hazardous reactions**
Danger of containers bursting because of high vapour pressure
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	> 7,426 mg/kg (guinea pig) (21 CFR 191.10) > 7,426 mg/kg (rabbit) (21 CFR 191.10)
Inhalative	LC50	132 mg/l/3h (rat)

141-78-6 ethyl acetate

Oral	LD50	4,100 mg/kg (mouse) 6,100 mg/kg (rat)
Dermal	LD50	> 20,000 mg/kg (rabbit)
Inhalative	LC50	200 mg/l/1h (rat) LC50 > 22.5 mg/l/6h (rat) (40 CFR Part 799)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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· Additional toxicological information:
· Repeated dose toxicity
67-64-1 acetone

Oral	NOAEL (90d)	3,100 mg/kg bw/day (rat) (OECD 408)
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141-78-6 ethyl acetate

Oral	NOAEL (90d)	900 mg/kg bw/day (rat) (EPA OTS 795.2600)
Inhalative	NOAEC (90d)	1.28 mg/m ³ (rat) (EPA OTS 798.2450) Vapour

· 11.2 Information on other hazards
· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity:
67-64-1 acetone

EC50	> 10,000 mg/l/24h (Daphnia magna)
LC50 (dynamic)	8,120 mg/l/96h (Pimephales promelas) (OECD 203)

141-78-6 ethyl acetate

EC50 (static)	3,090 mg/l/24h (Daphnia magna) (DIN 38412pt 11)
EC50 (static)	5,600 mg/l/48h (Scenedesmus subspicatus) (DIN 38 412, Part 9)
LC50 (dynamic)	230 mg/l/96h (Pimephales promelas) (US EPA method E03-05)

· 12.2 Persistence and degradability No further relevant information available.

· Other information: There are no data available about the preparation.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment
· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects
· Additional ecological information:
· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods
· Recommendation

Proceed according to local, official regulations.

The waste code numbers mentioned are recommendations based on the probable use of the product.

· European waste catalogue

HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

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- **Uncleaned packagings:**
- **Recommendation:**
After use the packaging shall be discharged completely.
Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR/RID, IMDG, IATA 	UN1950
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR/RID · IMDG · IATA 	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR/RID 	<div style="text-align: center;"> </div>
<ul style="list-style-type: none"> · Class · Label 	2.5F Gases. 2.1
<ul style="list-style-type: none"> · IMDG, IATA 	<div style="text-align: center;"> </div>
<ul style="list-style-type: none"> · Class · Label 	2.1 Gases. 2.1
<ul style="list-style-type: none"> · 14.4 Packing group · ADR/RID, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Kemler Number: · EMS Number: · Stowage Code 	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

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<ul style="list-style-type: none"> · Segregation Code 	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
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<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
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- **Transport/Additional information:**

<ul style="list-style-type: none"> · ADR/RID · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code 	1L Code: E0 Not permitted as Excepted Quantity 2 D
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<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	1L Code: E0 Not permitted as Excepted Quantity
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<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 1950 AEROSOLS, 2.1
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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

67-64-1 acetone

- **Regulation (EC) No 273/2004 on drug precursors**

67-64-1 acetone

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- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

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- **National regulations**

- **Water hazard class:**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.

- **Relevant phrases**

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.

- **Department issuing data specification sheet:**

- ▶ **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

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- **Version number of previous version: 2**

- **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Gas 1A: Flammable gases – Category 1A
- Aerosol 1: Aerosols – Category 1
- Press. Gas (Comp.): Gases under pressure – Compressed gas
- Flam. Liq. 2: Flammable liquids – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- *** Data compared to the previous version altered.**

EU