

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)
GENERIC EU SDS - NO COUNTRY SPECIFIC DATA

Attero InfiniteFilm

Version number: 2.0
Replaces version of: 2020-04-17 (1)

Revision: 2023-03-31

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

FOR THIS PRODUCT IT IS NOT LEGALLY REQUIRED TO PROVIDE AN SDS UNDER ARTICLE 31 OF THE REACH REGULATION, BECAUSE THE PRODUCT IS NOT CLASSIFIED AS HAZARDOUS. THIS DOCUMENT IS PREPARED AS A VOLUNTARY AND ADDITIONAL SERVICE TO PROVIDE GENERAL SAFETY INFORMATION.

1.1 Product identifier

Trade name **Attero InfiniteFilm**
Identification of the substance PE-granulate

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

Relevant identified uses Industrial use
Recycled LDPE

1.3 Details of the supplier of the safety data sheet

Attero
Vamweg 7
9418 TM WIJSTER
PO Box: 4114

Telephone: +31 88 550 14 97
e-mail: info@attero.nl
Website: www.attero.nl

e-mail (competent person) info@attero.nl

1.4 Emergency telephone number

Emergency information service +31 88 550 14 97
This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS
This substance does not meet the criteria for classification.

2.2 Label elements

Labelling
Not required.

2.3 Other hazards

Vapours and fumes, released at elevated processing temperatures, may be irritating for the eyes, nose, throat and respiratory system. In case of overexposure they can cause nausea and headache. Handling heated/molten product may cause burns. Special danger of slipping by leaking/spilling product.

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 $\geq 0.1\%$.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance polyethylene

Remarks

For full text of H-phrases: 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. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower. After contact with the molten product, cool down quickly with cold water. Do not remove the solidified product from the skin.

Following eye contact

Do not rub the eyes. Mechanical stress can cause damage to the cornea. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor if you feel unwell.

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: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water; Foam; Dry extinguishing powder; ABC-powder;
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential. Vapours and fumes, released at elevated processing temperatures, may be irritating for the eyes, nose, throat and respiratory system. In case of overexposure they can cause nausea and headache.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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Special protective equipment for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area. Control of dust.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Take up mechanically.

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. Take precautionary measures against static discharge. Use only in well-ventilated areas.

- specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- explosive atmospheres

Removal of dust deposits.

- flammability hazards

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

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

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Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed. Recommended storage temperature: <50 °C.

- ventilation requirements

Use local and general ventilation.

- packaging compatibilities

Keep only in original container.

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 ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
GB	dust		WEL		10			i	EH40/2005
GB	dust		WEL		4			r	EH40/2005

Notation

- i inhalable fraction
- r respirable fraction
- 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

Provide mechanical ventilation; in general such ventilation should be provided at compounding/converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material. Emissions from ventilation or work process equipment should be checked to ensure they comply with the legal requirements.

Individual protection measures (personal protective equipment)

Eye/face protection



- Use safety goggle with side protection.
- Use heat resistant face shield when handling molten product

Skin protection



Chemical protective clothing.

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- hand protection



Use heat resistant gloves when handling molten product.

- 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

Keep away from drains, surface and ground water. Emissions from ventilation or work process equipment should be checked to ensure they comply with the legal requirements.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid (granulate)
Colour	dark grey
Odour	odourless weak
Melting point/freezing point	
Boiling point or initial boiling point and boiling range	not applicable
Evaporation rate	not applicable
Flammability	not applicable
Lower and upper explosion limit	LEL: UEL: not relevant
Flash point	not relevant
Auto-ignition temperature	not determined
pH (value)	not applicable
Kinematic viscosity	not relevant
Solubility	not determined

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	not applicable
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Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	no data available
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

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

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.4 Conditions to avoid

Avoid prolonged exposure to heat or UV light since this may influence material properties. Material will burn when exposed to continuing source of ignition. When heated above decomposition temperature toxic fumes may be released. Recommended storage temperature: <50 °C.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

Acids, Oxidisers, Alkalis

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

Classification acc. to GHS

This substance does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Fine dust may be irritating for the skin, eyes and respiratory tract. Skin contact with molten material can cause burns.

11.2 Information on other hazards

Endocrine disrupting properties

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

Other information

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Based on previous experience, this product is non-degradable.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not listed.

12.7 Other adverse effects

Data are not available.

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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/packagings

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 UN number or ID number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | none |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | There is no additional information. |
| 14.7 Maritime transport in bulk according to IMO instruments | No data available. |

Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

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

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

This Safety Data Sheet is purely informative and does comply with EU regulation, but not with country-specific regulation.

Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the known ingredients are present above their concentration limit.

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Not listed.

Water Framework Directive (WFD)

Not listed.

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Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

Not listed.

Regulation on persistent organic pollutants (POP)

Not listed.

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
1.1	Trade name: Polyethylene	Trade name: Attero InfiniteFilm
1.1	Identification of the substance: Attero InfiniteFilm PE-granulate	Identification of the substance: PE-granulate
1.1	Registration number (REACH): Not relevant the product is a polymer	
1.1	CAS number: 9002-88-4	
1.3	Details of the supplier of the safety data sheet: Attero Vamweg 7 9418 TM WIJSTER 4114 Telephone: +31 88 550 14 97 e-mail: info@attero.nl Website: www.attero.nl	Details of the supplier of the safety data sheet: Attero Vamweg 7 9418 TM WIJSTER PO Box: 4114 Telephone: +31 88 550 14 97 e-mail: info@attero.nl Website: www.attero.nl
2.1	Classification according to Regulation (EC) No 1272/2008 (CLP): This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	Classification acc. to GHS: This substance does not meet the criteria for classification.
2.3	Other hazards: Vapours and fumes, released at elevated processing temperatures, may be irritating for the eyes, nose, throat and respiratory system. In case of overexposure they can cause nausea and headache. Handling heated/molten product may cause burns.	Other hazards: Vapours and fumes, released at elevated processing temperatures, may be irritating for the eyes, nose, throat and respiratory system. In case of overexposure they can cause nausea and headache. Handling heated/molten product may cause burns. Special danger of slipping by leaking/spilling product.
2.3	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. According to the results of its assessment, this substance is not a PBT or a vPvB.	Results of PBT and vPvB assessment: Does not contain any substances that are assessed to be PBT or vPvB \geq 0.1%.
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of \geq 0.1%.
3.1	Identifiers	
3.1	CAS No: 9002-88-4	
3.1		Remarks: For full text of H-phrases: see SECTION 16.

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Section	Former entry (text/value)	Actual entry (text/value)
4.1	Following eye contact: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	Following eye contact: Do not rub the eyes. Mechanical stress can cause damage to the cornea. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
4.1	Following ingestion: Rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor if you feel unwell.	Following ingestion: Rinse mouth with water (only if the person is conscious). Call a doctor if you feel unwell.
5.1	Suitable extinguishing media: Water; Foam; Dry extinguishing powder; ABC-powder	Suitable extinguishing media: Water; Foam; Dry extinguishing powder; ABC-powder; Co-ordinate firefighting measures to the fire surroundings.
5.3	Special protective equipment for firefighters: Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.	Special protective equipment for firefighters: Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.
6.3	Advice on how to contain a spill: Covering of drains. Take up mechanically.	Advice on how to contain a spill: Covering of drains.
7.1	- measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.	- measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas.
7.1	Specific notes/details: Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion. Spilled material creates extremely slippery conditions.	Specific notes/details: Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.
7.2		- flammability hazards: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
7.2	Consideration of other advice: Store in a well-ventilated place. Keep container tightly closed.	Consideration of other advice: Store in a well-ventilated place. Keep container tightly closed. Recommended storage temperature: <50 °C.
7.2		- packaging compatibilities: Keep only in original container.
8.2	Eye/face protection: eye protection must be worn Use safety goggle with side protection. (EN166). Use heat resistant face shield when handling molten product	Eye/face protection: eye protection must be worn Use safety goggle with side protection. Use heat resistant face shield when handling molten product
8.2	Skin protection: Protective clothing (EN 340 & EN ISO 13688).	Skin protection: wear protective clothing Chemical protective clothing.
8.2	Hand protection: safety gloves must be worn Chemical protection gloves are suitable, which are tested according to EN 374. Use heat resistant gloves when handling molten product.	Hand protection: safety gloves must be worn Use heat resistant gloves when handling molten product.
8.2	Breakthrough times of the glove material: Use gloves with a minimum breakthrough times of the glove material: >480 minutes (permeation: level 6).	

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Section	Former entry (text/value)	Actual entry (text/value)
8.2	Respiratory protection: In case of inadequate ventilation wear respiratory protection. P2 (filters at least 94 % of airborne particles, colour code: White).	Respiratory protection: In case of inadequate ventilation wear respiratory protection.
9.1	Appearance	
9.1	Other safety parameters	
9.1	Explosion limits of dust clouds: not determined	
9.1		Lower and upper explosion limit: LEL: UEL: not relevant
9.1	Flash point: not applicable	Flash point: not relevant
9.1		Kinematic viscosity: not relevant
9.1		Density and/or relative density
9.1	Vapour density: this information is not available	
9.1	Partition coefficient	
9.1	Viscosity: not relevant (solid matter)	
9.1	Explosive properties: this information is not available	
9.1	Oxidising properties: this information is not available	
9.1		Particle characteristics: no data available
9.2	Other information: There is no additional information.	Other information
9.2		Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant
9.2		Other safety characteristics: there is no additional information
10.4	Conditions to avoid: Avoid prolonged exposure to heat or UV light since this may influence material properties. Material will burn when exposed to continuing source of ignition. When heated above decomposition temperature toxic fumes may be released.	Conditions to avoid: Avoid prolonged exposure to heat or UV light since this may influence material properties. Material will burn when exposed to continuing source of ignition. When heated above decomposition temperature toxic fumes may be released. Recommended storage temperature: <50 °C.
11.1	Classification according to GHS (1272/2008/EC, CLP): This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	Classification acc. to GHS: This substance does not meet the criteria for classification.
11.2		Information on other hazards
11.2		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0.1%.
11.2		Other information: There is no additional information.

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Section	Former entry (text/value)	Actual entry (text/value)
14.4	Packing group: not assigned to a packing group	Packing group: not assigned
14.7	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN): Not subject to ADR, RID and ADN.	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	Safety, health and environmental regulations/legislation specific for the substance or mixture: This Safety Data Sheet is purely informative and does comply with EU regulation, but not with country-specific regulation.
15.1	Restrictions according to REACH, Annex XVII: Not listed.	
15.1	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: Not listed.	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: None of the ingredients are listed.
15.1		Regulation on persistent organic pollutants (POP): Not listed.
16		Abbreviations and acronyms: change in the listing (table)
16	Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU. Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	Key literature references and sources for data: Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).
16	Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information, data and recommendations are made to the best ability and obtained from reliable sources. Completeness is not guaranteed. This SDS is intended only as a guideline for the treatment of our products and provides no guarantee of product properties or contractual agreements. It remains the responsibility of the user to meet local and national legislation. For this product it is not legally required to provide an SDS under Article 31 of the REACH Regulation, because the product is not classified as hazardous. This document is prepared as a voluntary and additional service to provide general safety information.	Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information, data and recommendations are made to the best ability and obtained from reliable sources. Completeness is not guaranteed. This SDS is intended only as a guideline for the treatment of our products and provides no guarantee of product properties or contractual agreements. It remains the responsibility of the user to meet local and national legislation.

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service 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
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)

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Abbr.	Descriptions of used abbreviations
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
LEL	Lower explosion limit (LEL)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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