

Safety Data Sheet

DURSILITE PLUS

Safety Data Sheet dated: 02/08/2019 - version 1



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

1.1. Product identifier

Mixture identification:

Trade name: DURSILITE PLUS

Trade code: 906DD0900

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

Recommended use: Water dispersion synthetic resin based paint

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

Company: MAPEI S.p.A. - Via Cafiero, 22 - 20158 Milano

Tel: +39-02-376731

Fax: +39-02-37673.214

Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

Poison Centre - Ospedale di Niguarda - Milan - Tel. +39/02/66101029

MAPEI S.p.A. - Tel. +(39)02376731 - (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with applicable regulations.

Contains:

octhiline (ISO); 2-octyl-2H-isothiazol-3-one May produce an allergic reaction.

1,2-benzisothiazol-3(2H)-one May produce an allergic reaction.

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) May produce an allergic reaction.

3-iodo-2-propynyl butylcarbamate (IPBC) May produce an allergic reaction.

pyrithione zinc May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: DURSILITE PLUS

Hazardous components within the meaning of the CLP regulation and related classification:

Date 09/09/2019 Production Name DURSILITE PLUS

Page n. 1 of 11

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥0.25 - <0.49 %	Alcohols, C16-18 and C18-unsatd., ethoxylated	CAS:68920-66-1	Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 3, H412, M:1	01-2119489407-26-xxxx
≥0.1 - <0.25 %	pyrithione zinc	CAS:13463-41-7 EC:236-671-3	Acute Tox. 3, H331; Acute Tox. 3, H301; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:10, M-Acute:100	01-2119511196-46-XXXX
≥0.05 - <0.1 %	3-iodo-2-propynyl butylcarbamate (IPBC)	CAS:55406-53-6 EC:259-627-5 Index:616-212-00-7	Acute Tox. 4, H302; Skin Sens. 1, H317; Eye Dam. 1, H318; Acute Tox. 3, H331; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:10	
≥0.025 - <0.05 %	octhilionone (ISO); 2-octyl-2H-isothiazol-3-one	CAS:26530-20-1 EC:247-761-7 Index:613-112-00-5	Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 1, H410; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400, M-Acute:10	
≥0.005 - <0.01 %	1,2-benzisothiazol-3(2H)-one	CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6	Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1,1A,1B, H317; Aquatic Acute 1, H400; Acute Tox. 4, H302	
≥0.0015 - <0.005 %	n-butyl acrylate	CAS:141-32-2 EC:205-480-7 Index:607-062-00-3	Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	01-2119453155-43-XXXX
<0.0015 %	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS:55965-84-9 Index:613-167-00-5	Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Acute:10	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

N.A.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: N.A.

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****List of components with OEL value**

Component	OEL Type	Country	Ceiling	Long Term mg/m ³	Long Term ppm	Short Term mg/m ³	Short Term ppm	Behaviour	Note
3-iodo-2-propynyl butylcarbamate (IPBC)	DFG	GERMANY	C			0,116	0,01		
	National	GERMANY		0,058	0,005				
	CHE	SWITZERLAND				0,24	0,02		
octhiline (ISO); 2-octyl-2H-isothiazol-3-one	DFG	GERMANY	C			54	10		
	National	GERMANY		0,05					
	CHE	SWITZERLAND				0,1			
n-butyl acrylate	National	SLOVENIA		0,05		0,05			
	DFG	GERMANY	C			0,1			
	National	SWEDEN		50	10	80	15		SWEDEN, Short-term value, 15 minutes average value

National	NORWAY	11	2			NORWAY, A
EU	NNN	11	2	53	10	
National	NORWAY	11	2	22	4	
ACGIH	NNN		2			DSEN, A4 - Irr
DFG	GERMANY	C		22	4	
ACGIH			2			A4 - Not Classifiable as a Human Carcinogen; irritation;dermal sensitizer
National	SWEDEN	11	2			
National	FRANCE	11	2	53	10	
National	SPAIN	11	2	53	10	
National	GREECE	55	10			
National	DENMARK	11	2			
National	FINLAND	11	2	53	10	
National	GERMANY	11	2			
National	PORTUGAL	11	2	53	10	
National	NORWAY	11	2	16,5	4	
National	BELGIUM	11	2	53	10	
NDS	POLAND	11				
NDSch	POLAND			30		
CHE	SWITZERLAN D			22	4	
NDS	NETHERLAND S	11		53		
National	CZECHIA	10				
National	HUNGARY	11		53		
Malaysi a OEL	MALAYSIA	10,48	2			
National	ESTONIA	11	2	53	10	
National	LATVIA	11	2	53	10	
National	CZECHIA	C		20		
National	SLOVAKIA	C		53		
National	SLOVAKIA	11	2			
National	SLOVENIA	11	2	55	10	
National	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	5	1	26	5	
National	BULGARIA	11	2	53	10	
National	ROMANIA	11	2	53	10	
TUR	TURKEY	11	2	53	10	
National	LITHUANIA	11	2	53	10	
National	CROATIA	11	2	53	10	
EU		11	2	53	10	Indicative

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
pyrithione zinc	13463-41-7	0,00009	Fresh Water		mg/l
		0,00009	Marine water		mg/l
		0,01 mg/l	Microorganisms in sewage		

			treatments
		0,0095 mg/kg	Marine water sediments
		0,0095 mg/kg	Freshwater sediments
n-butyl acrylate	141-32-2	0,00272 mg/l	Fresh Water
		0,00027 mg/l	Marine water
		0,0338 mg/kg	Freshwater sediments
		1 mg/kg	Soil
		0,00338 mg/kg	Marine water sediments
		0,011 mg/l	Intermittent release
		3,5 mg/l	Microorganisms in sewage treatments

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
pyrithione zinc	13463-41-7	0,01 mg/kg			Human Dermal	Long Term, systemic effects	
n-butyl acrylate	141-32-2	11 mg/m3			Human Inhalation	Long Term, local effects	

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Suitable materials for safety gloves; EN 374:

Polychloroprene - CR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: liquid various

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 100 °C (212 °F)

Flash point: N.A.
Evaporation rate: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Vapour pressure: N.A.
Relative density: N.A.
Solubility in water: Dispersible
Partition coefficient (n-octanol/water): N.A. - This product is a mixture
Auto-ignition temperature: N.A. - No explosive or spontaneous ignition in contact with air at room temperature
Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: == - No components with explosive properties
Oxidizing properties: N.A. - No component with oxidizing properties
Solid/gas flammability: N.A.

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

pyrithione zinc	a) acute toxicity	LD50 Oral Rat = 269 mg/kg
		LD50 Skin Rat > 2000 mg/kg
		LC50 Inhalation Mist Rat = 1,03 mg/l 4h
		LD50 Skin Rabbit = 100 mg/kg
		LC50 Inhalation Rat 0,05 mg/l 4h
3-iodo-2-propynyl butylcarbamate (IPBC)	a) acute toxicity	LD50 Oral Rat = 177 mg/kg
		e) germ cell mutagenicity Mutagenesis Oral Rat = 1300 mg/kg
	a) acute toxicity	LC50 Inhalation Dust Rat = 0,67 mg/l 4h
		LC50 Inhalation Mist Rat = 0,76300 mg/l 4h
		LD50 Skin Rabbit > 2000,00000 mg/kg
		LD50 Oral Rat = 400,00000 mg/kg
		LD50 Skin Rat > 2000 mg/kg
		LC50 Inhalation Rat = 0,67 mg/l 4h
		LC50 Inhalation Rat = 0,63 mg/l 4h
		LC50 Inhalation Rat = 0,99 mg/l 4h
	e) germ cell mutagenicity	Mutagenesis Oral Rabbit = 50 mg/kg
	g) reproductive toxicity	Reproductive Toxicity Oral Rabbit = 50,00000

mg/kg

octhilonone (ISO); 2-octyl-2H-isothiazol-3-one	a) acute toxicity	LD50 Oral Rat > 500 mg/kg LD50 Skin Rabbit > 311 mg/kg LC50 Inhalation Rat > 0,78 mg/l 4h LD50 Skin Rabbit = 690 mg/kg LD50 Oral Rat = 550 mg/kg
1,2-benzisothiazol-3(2H)-one	a) acute toxicity	LD50 Oral Mouse > 1150 mg/kg LD50 Skin Mouse > 2000 mg/kg LD50 Oral Rat > 597 mg/kg LD50 Oral Rat = 1020 mg/kg
	b) skin corrosion/irritation	Skin Irritant Skin Rabbit Positive
n-butyl acrylate	a) acute toxicity	LC50 Inhalation Rat = 10,3 mg/l 4h LD50 Skin Rabbit = 3500 mg/kg LD50 Oral Rat = 3500 mg/kg LD50 Skin Rabbit = 3024 mg/kg LC50 Inhalation Rat = 10,3 mg/l 4h LD50 Oral Rat = 9050 mg/kg
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	a) acute toxicity	LD50 Oral Rat = 53 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- k) Toxicological kinetics, metabolism and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
>=0.1 - <0.25 %	pyrithione zinc	CAS: 13463-41-7 - EINECS:	a) Aquatic acute toxicity : LC50 Fish = 0,0026 mg/L 96

>=0.05 - <0.1 %	3-iodo-2-propynyl butylcarbamate (IPBC)	CAS: 55406-53-6 - EINECS: 259-627-5 - INDEX: 616-212-00-7	a) Aquatic acute toxicity : EC50 Daphnia = 0,0082 mg/L 48
			a) Aquatic acute toxicity : EC50 Algae = 0,0012 mg/L 120
>=0.005 - <0.01 %	1,2-benzisothiazol-3(2H)-one	CAS: 2634-33-5 - EINECS: 220-120-9 - INDEX: 613-088-00-6	a) Aquatic acute toxicity : NOEC Algae = 0,00046 mg/L 120
			a) Aquatic acute toxicity : EC50 Daphnia = 0,05 mg/L - 21 d
>=0.0015 - <0.005 %	n-butyl acrylate	CAS: 141-32-2 - EINECS: 205-480-7 - INDEX: 607-062-00-3	b) Aquatic chronic toxicity : NOEC Fish = 0,0084 mg/L - 35 d
			b) Aquatic chronic toxicity : NOEC Fish = 0,049 mg/L 96
			a) Aquatic acute toxicity : EC50 Algae = 0,022 mg/L 72
			a) Aquatic acute toxicity : EC50 Daphnia = 0,16 mg/L 48
			a) Aquatic acute toxicity : LC50 Fish = 0,067 mg/L 96
			a) Aquatic acute toxicity : NOEC Algae = 0,0046 mg/L 72
			a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 0,14 mg/L 96h EPA
			a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 0,049 mg/L 96h EPA
			a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 0,05 mg/L 96h EPA
			a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 0,18 mg/L 96h EPA
			a) Aquatic acute toxicity : EC50 Daphnia = 2,44 mg/L 48
			a) Aquatic acute toxicity : EC50 Algae = 0,37 mg/L 72
			a) Aquatic acute toxicity : LC50 Fish = 0,74 mg/L 96
			a) Aquatic acute toxicity : LC50 Fish = 5 mg/L 96
			a) Aquatic acute toxicity : EC50 Daphnia = 5 mg/L 48
			a) Aquatic acute toxicity : EC50 Algae = 5 mg/L 96
			b) Aquatic chronic toxicity : NOEC Daphnia = 0,136 mg/L - 21 d
			c) Bacteria toxicity : EC50 Bacteria > 1000 mg/L
			a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 5,2 mg/L 96h IUCLID
			a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 8,2 mg/L 48h IUCLID
			a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 5,5 mg/L 96h IUCLID

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

SECTION 15: Regulatory information

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

VOC (2004/42/EC) : 25 g/l

Norwegian Product register number: NA

MAL KODE: NA

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) 2015/830

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

German Water Hazard Class.

N.A.

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 28

SVHC Substances:

No Data Available

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008 Classification procedure

4.1/C3 Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

VOC: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.