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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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Metaflux 70-44 Rost-Safe grau

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Metaflux 70-44 Rost-Safe grau

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

Relevant identified uses of the substance or mixture:

Corrosion protection

Priming

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Techno-Service GmbH

Detmolder Str. 515, D- 33605 Bielefeld

Tel +49 (0) 521 924440, fax +49 (0) 521 207432

info@metaflux.de www.metaflux.de

E-mail address of the competent person: verkauf@metaflux.de

1.4 Emergency telephone

Telephone number of the company in case of emergencies:

Tel.: +49 (0) 521 924440 office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

F+,Extremely flammable

N, Dangerous for the environment, R51-53

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments)

Symbols: F+/N

Indications of danger:

Extremely flammable

Dangerous for the environment

R-phrases:

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases:



23 Do not breathe vapour/spray.

29/35 Do not empty into drains

dispose of this material and its container in a safe way.

(46) If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Additions:

Pressurized container:

protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

Without adequate ventilation, formation of explosive mixtures may be possible.

Contains

2-Butanone oxime

May produce an allergic reaction.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a.

3.2 Mixture

Dimethyl ether	Substance for which an EU exposure limit value applies.
Registration number (REACH)	--
Index	603-019-00-8
EINECS, ELINCS, NLP	204-065-8
CAS	CAS 115-10-6
content %	40-60
Classification according to Directive 67/548/EEC	Extremely flammable, F+, R12
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Gas 1, H220

Xylene (mixture of isomers)	Substance for which an EU exposure limit value applies.
Registration number (REACH)	--
Index	601-022-00-9
EINECS, ELINCS, NLP	215-535-7
CAS	CAS 1330-20-7
content %	1-<12,5
Classification according to Directive 67/548/EEC	Flammable, R10 Harmful, Xn, R20/21 Irritant, Xi, R38
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 4, H312 Skin Irrit. 2, H315

Ethyl acetate	
Registration number (REACH)	--
Index	607-022-00-5
EINECS, ELINCS, NLP	205-500-4 CAS
CAS	141-78-6
content %	1-10

Classification according to Directive 67/548/EEC	Highly flammable, F, R11 Irritant, Xi, R36 R66 R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

trizinc bis(orthophosphate)	
Registration number (REACH)	--
Index	030-011-00-6
EINECS, ELINCS, NLP	231-944-3
CAS	CAS 7779-90-0
content %	2,5-5
Classification according to Directive 67/548/EEC	Dangerous for the environment, N, R50 Dangerous for the environment, R53
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Ethylbenzene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	--
Index	601-023-00-4
EINECS, ELINCS, NLP	202-849-4
CAS	CAS 100-41-4
content %	1-5
Classification according to Directive 67/548/EEC	Highly flammable, F, R11 Harmful, Xn, R20
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Acute Tox. 4, H332

Solvent naphtha (petroleum), light arom.	
Registration number (REACH)	--
Index	649-356-00-4
EINECS, ELINCS, NLP	265-199-0
CAS	CAS 64742-95-6
content %	0,1-<1
Classification according to Directive 67/548/EEC	Flammable, R10 Irritant, Xi, R37 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R66 R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411 Asp. Tox. 1, H304 STOT SE 3, H336

2-Butanone oxime	
Registration number (REACH)	--
Index	616-014-00-0
EINECS, ELINCS, NLP	202-496-6
CAS	CAS 96-29-7
content %	0,1-<1
Classification according to Directive 67/548/EEC	Carcinogen, R40, Carc.Cat.3 Harmful, Xn, R21 Irritant, Xi, R41 Sensitizing, R43
Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351 Acute Tox. 4, H312 Eye Dam. 1, H318 Skin Sens. 1, H317

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Unsuitable cleaning product:

Solvent

Thinners

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Protect uninjured eye.

Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Headaches

Dizziness

Fatigue

dizziness

Nausea

Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Extinction powder

Water jet spray

Alcohol resistant foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

Danger of bursting (explosion) when heated

Explosive vapour/air mixture

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping

6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Without adequate ventilation, formation of explosive mixtures may be possible.

Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

Clean soiled bottles immediately.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Use explosion-proof equipment.

Do not use on hot surfaces.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

Do not store with flammable or self-igniting materials.

Observe special regulations for aerosols!

Store in a well ventilated place.

Keep protected from direct sunlight and temperatures over 50°C.

Store cool

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):

500 mg/m³

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Chemical Name	Dimethyl ether	Content %:40-60
WEL-TWA: 400 ppm (766 mg/m ³) (WEL), 1000 ppm (1920 mg/m ³) (EC)	WEL-STEL: 500 ppm (958 mg/m ³) (WEL)	---
BMGV: ---	Other information: ---	

Chemical Name	Xylene (mixture of isomers)	Content %:1-<12,5
WEL-TWA: 50 ppm (220 mg/m ³) (WEL), 50 ppm (221 mg/m ³) (EC)	WEL-STEL: 100 ppm (441 mg/m ³) (WEL), 100 ppm (442 mg/m ³) (EC)	---
BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, post shift (Xylene, o-, m-, p- or mixed isomers) (BMGV)	Other information: Sk (WEL)	

Chemical Name	Ethyl acetate	Content %:1-10
WEL-TWA: 200 ppm	WEL-STEL: 400 ppm	---
BMGV: ---	Other information: ---	

Chemical Name	Ethylbenzene	Content %:1-5
WEL-TWA: 100 ppm (441mg/m ³) (WEL), 100 ppm (442 mg/m ³) (EC)	WEL-STEL: 125 ppm (552 mg/m ³) (WEL), 200 ppm (884 mg/m ³) (EC)	---
BMGV: ---	Other information: Sk (WEL)	

Chemical Name	Solvent naphtha (petroleum), light arom.	Content %:0,1-<1
WEL-TWA: 500 mg/m ³ (Aromatics)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	

Chemical Name	n-butyl acetate	Content %:
WEL-TWA: 150 ppm (724 mg/m ³)	WEL-STEL: 200 ppm (966 mg/m ³)	---
BMGV: ---	Other information: ---	

Chemical Name	Barium sulphate	Content %:
WEL-TWA: 4 mg/m ³ (respirable dust), 10 mg/m ³ (total inhalable dust)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	

Chemical Name	Titanium dioxide	Content %:
WEL-TWA: 10 mg/m ³ (total inhalable dust), 4 mg/m ³ (respirable dust)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	

Chemical Name	Talc	Content %:
WEL-TWA: 1 mg/m ³ (res. dust)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period)
 EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Dimethyl ether						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1894	mg/m ³	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	471	mg/m ³	
	Environment - freshwater		PNEC	0,155	mg/l	
	Environment - sediment, freshwater		PNEC	0,681	mg/kg	
	Environment - soil		PNEC	0,045	mg/kg	

	Environment - sewage treatment plant		PNEC	160	mg/l	
	Environment - marine		PNEC	0,016	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,549	mg/l	
	Environment - sediment, marine		PNEC	0,069	mg/kg	

trizinc bis(orthophosphate)						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Human - inhalation		DNEL	1	mg/m3	Zn, soluble
	Human - inhalation		DNEL	5	mg/m3	Zn, insoluble
	Environment - freshwater		PNEC	20,6	µg/l	Zn
	Environment - marine		PNEC	6,1	µg/l	Zn
	Environment - sediment, freshwater		PNEC	235,6	mg/kg	Zn
	Environment - sediment, marine		PNEC	113	mg/kg	Zn
	Environment - soil		PNEC	106,8	mg/kg	Zn
	Environment - sewage treatment plant		PNEC	52	µg/l	Zn

2-Butanone oxime						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	2,5	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1,3	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	3,33	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	9	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	1,5	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,78	mg/kg bw/day	
Consumer	Human - inhalation	Long term, local effects	DNEL	2	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,7	mg/m3	
	Environment - sewage treatment plant Environment		PNEC	177	mg/l	
	- water, sporadic (intermittent) release		PNEC	0,118	mg/l	
	Environment - freshwater		PNEC	0,256	mg/l	

Ethyl acetate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	63	mg/kg	

Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	734	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	734	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	1468	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1468	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,5	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	37	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	367	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	367	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	734	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	734	mg/m3	
	Environment - freshwater		PNEC	0,26	mg/l	
	Environment - marine		PNEC	0,026	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,65	mg/l	
	Environment - sediment, freshwater		PNEC	1,25	mg/kg	
	Environment - sediment, marine		PNEC	0,125	mg/kg	
	Environment - soil		PNEC	0,24	mg/kg	
	Environment - sewage treatment plant		PNEC	650	mg/l	
	Environment - oral (animal feed)		PNEC	200	mg/kg	

Titanium dioxide						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg	
	Environment - freshwater		PNEC	0,127	mg/l	
	Environment - marine		PNEC	1	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,61	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	1000	mg/kg dw	
	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	
	Environment - oral (animal feed)		PNEC	1667	mg/kg feed	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374)

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Aerosol
Physical state:	Substance: Liquid
Colour:	Grey
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	-25 °C (Dimethyl ether)
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability (solid, gas):	Yes
Lower explosive limit:	3,4 Vol-% (Dimethyl ether)
Upper explosive limit:	18 Vol-% (Dimethyl ether)
Vapour pressure:	4 - 5 bar (20°C)
Vapour pressure:	8,5-9,7 bar (50°C)
Vapour density (air = 1):	Not determined
Density:	Not determined
Bulk density:	Not determined
Solubility(ies):	Not determined

Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature: Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	When using: development of explosive vapour/air mixture possible.
Oxidising properties:	No

9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

SECTION 10: Stability and reactivity**10.1 Reactivity**

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Possible build up of explosive/highly flammable vapour/air mixture.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong alkalis.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

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Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation: Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Respiratory tract irritation:						n.d.a.
Repeated dose toxicity:						n.d.a.
Symptoms:						n.d.a.

Other information:						Classification according to calculation procedure.
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Dimethyl ether						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	164	mg/l/4h	Rat		
Germ cell mutagenicity:						Negative
Germ cell mutagenicity (in vitro):					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity (in vitro):					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity (in vivo):					OECD 477 (Genetic Toxicology - Sex-Linked Recessive Lethal Test in Drosophila melanogaster)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Repeated dose toxicity:	NOAEC	47106	mg/m3	Rat	OECD 452 (Chronic Toxicity Studies)	Negative2a
Symptoms:						unconsciousness, headaches, mucous membrane irritation, dizziness, nausea and vomiting.

Xylene (mixture of isomers)						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2840	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	21,7	mg/l/4h	Rat		Does not conform with EU classification., References
Skin corrosion/irritation:				Rabbit		Irritant
Serious eye damage/irritation:				Rabbit		Slightly irritant
Respiratory or skin sensitisation:					(Patch-Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						breathing difficulties, drying of the skin., dizziness, unconsciousness, burning of the membranes of the nose and throat, vomiting, skin afflictions, heart/circulatory disorders, coughing, headaches, drowsiness, dizziness, nausea

Ethyl acetate

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	5620	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>18000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>28,6	mg/l/4h	Rat		
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Skin corrosion/irritation:		4	h	Rabbit		Not irritant
Serious eye damage/irritation:						Irritant
Respiratory or skin sensitisation:						No indications of such an effect.
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Symptoms:						lack of appetite, breathing difficulties, dizziness, unconsciousness, drop in blood pressure, cornea opacity, coughing, headaches, gastrointestinal disturbances, intoxication, drowsiness, mucous membrane irritation, dizziness, salivation, nausea and vomiting.

trizinc bis(orthophosphate)						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by inhalation: Skin corrosion/irritation:	LC50	>5,7	mg/l/4h	Rat		Not irritant
Skin corrosion/irritation:						Analogous conclusion, Not irritant
Serious eye damage/irritation:						Not irritant
Serious eye damage/irritation:						Analogous conclusion, Not irritant
Respiratory or skin sensitisation:						Not sensitising (Analogous conclusion)
Germ cell mutagenicity:						Analogous conclusion, Negative
Carcinogenicity:						Analogous conclusion, Negative
Reproductive toxicity:						Analogous conclusion, Negative
Specific target organ toxicity - single exposure (STOT-SE):						Analogous conclusion, No
Specific target organ toxicity - repeated exposure (STOT-RE):						Analogous conclusion, No
Aspiration hazard:						n.a.
Respiratory tract irritation:						Analogous conclusion, Not irritant

Symptoms:						breathing difficulties, fever, headaches, stomach pain, dizziness, nausea and vomiting.
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Ethylbenzene						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3500	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	15354	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	17,2	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit Human being		Mild irritant
Respiratory or skin sensitisation:					(Patch-Test)	Not sensitising
Symptoms:						ataxia, respiratory distress, abdominal pain, dizziness, unconsciousness, heart/circulatory disorders, coughing, headaches, cramps, fatigue, intoxication, drowsiness, mucous membrane irritation, shock, dizziness, nausea and vomiting.

Solvent naphtha (petroleum), light arom.						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h	Rat		
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitising (Analogous conclusion)
Aspiration hazard:						Yes
Respiratory tract irritation:						Irritant

2-Butanone oxime						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2326	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD0	1000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC0	4,83	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Serious eye damage/irritation:				Rabbit		Intensely irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Sensitising
Reproductive toxicity:	NOAEL	200	mg/kg bw/d	Rat		
Symptoms:						respiratory distress, drop in blood pressure, disturbed heart rhythm, headaches, cramps

Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	30	mg/kg bw/d	Rat		Female
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	25	mg/kg bw/d	Rat		Male

n-butyl acetate						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>10768	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Acute toxicity, by inhalation: Skin corrosion/irritation:	LD50	>21	mg/l/4h	Rat		Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:						Slightly irritant
Respiratory or skin sensitisation:				Guinea pig		Not sensitising
Symptoms:						dizziness, unconsciousness, headaches, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.

Barium sulphate						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>15000	mg/kg	Rat	IUCLID Chem. Data Sheet (ESIS)	
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:						Not irritant
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:						Not irritant
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:						Not sensitising
Respiratory or skin sensitisation:						No indications of such an effect.
Germ cell mutagenicity:						Negative
Carcinogenicity:						Negative
Symptoms:						circulatory collapse, mucous membrane irritation

Titanium dioxide						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		

Acute toxicity, by inhalation:	LD50	>6,8	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LD50	3,43	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant, Mechanical irritation possible.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitising
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not irritant
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Respiratory tract irritation:				Rat		Not irritant
Symptoms:						mucous membrane irritation
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	3500	mg/kg/d	Rat		90d
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	10	mg/m3	Rat		90 d

Talc						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Respiratory or skin sensitisation:						Not sensitising
Germ cell mutagenicity:						Negative
Carcinogenicity:						Negative
Symptoms:						mucous membrane irritation
Teratogenicity:				Rat		Negative

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Metaflux 70-44 Rost-Safe grau							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							n.d.a.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.

Dimethyl ether							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>4000	mg/l	(Poecilia reticulata)		
Toxicity to fish:	LC50	96h	2695	mg/l	(Pimephales promelas)		

Toxicity to fish:	LC50	96h	3082	mg/l	(Salmo gairdneri)		
Toxicity to daphnia:	EC50	48h	>4000	mg/l	(Daphnia magna)		
Toxicity to algae:	EC0	96h	154,9	mg/l	(Chlorella vulgaris)	QSAR	
Persistence and degradability:		28d	5	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Not readily biodegradable
Bioaccumulative potential:	Log Pow		-0,07				Bioaccumulation is unlikely (LogPow < 1). 25°C (pH 7)
Mobility in soil:	H (Henry)		518,6	Pa*m3/mol			No adsorption in soil.
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10		>1600	mg/l	(Pseudomonas putida)		
Water solubility:			45,60	mg/l			25°C

Xylene (mixture of isomers)

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	8,2	mg/l	(Oncorhynchus mykiss)		
Toxicity to fish:	LC50	96h	86	mg/l	(Leuciscus idus)		
Toxicity to daphnia:	EC50	24h	75,5	mg/l	(Daphnia magna)		
Toxicity to algae:	IC50	72h	10	mg/l			
Persistence and degradability:							Readily biodegradable
Bioaccumulative potential:	Log Pow		>3				
Bioaccumulative potential:	BCF		0,6-15				

Ethyl acetate

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	230	g/m3	(Pimephales promelas)		
Toxicity to daphnia:	EC50	48h	610	mg/l	(Daphnia magna)		
Toxicity to algae:	NOEC/NOEL	96h	2000	mg/l	(Scenedesmus subspicatus)		
Toxicity to algae:	IC50	48h	3300	mg/l	(Scenedesmus subspicatus)		
Persistence and degradability:		28d	100	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	
Persistence and degradability:		28d	93,9	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	
Bioaccumulative potential:	BCF		30				
Bioaccumulative potential:	Log Pow		0,73				Bioaccumulation is unlikely (LogPow < 1).
Mobility in soil:	H (Henry)		0,00012	atm*m3/mol			
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Water solubility:			80	g/l			Mixable 25°C

trizinc bis(orthophosphate)

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	0,177	mg/l	(Oncorhynchus mykiss)	U.S. EPA ECOTOX Database	
Toxicity to daphnia:	EC50	48h	28,2	mg/l	(Daphnia magna)		
Toxicity to algae:	ErC50	72h	11	mg/l	(Desmodesmus subspicatus)		
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Ethylbenzene							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	12,1	mg/l	(Pimephales promelas)		
Toxicity to fish:	LC50	96h	4,2	mg/l	(Oncorhynchus mykiss)		
Toxicity to daphnia:	EC50	48h	1,8	mg/l	(Daphnia magna)		
Toxicity to algae:	EC50	72h	4,6	mg/l	(Pseudokirchneriella subcapitata)		
Persistence and degradability:		6d	100	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	
Bioaccumulative potential:	Log Pow		3,15				
Other information:	ThOD		3,17	mg/l			
Other information:	BOD		1,78	g/g			

Solvent naphtha (petroleum), light arom.							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	10	mg/l	(Brachydanio rerio)		
Toxicity to fish:	LC50	96h	18	mg/l	(Oncorhynchus mykiss)		
Toxicity to daphnia:	EC50	48h	21,3	mg/l			
Toxicity to algae:	EC50	72h	10	mg/l			
Persistence and degradability:		28d	78	%			
Bioaccumulative potential:	Log Pow		4-4,1				
Other information:	COD		440	mg/g			
Other information:	BOD5		190	mg/l			

2-Butanone oxime							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	760	mg/l	(Poecilia reticulata)		
Toxicity to fish:	LC50	96h	48	mg/l	(Lepomis macrochirus)		
Toxicity to fish:	LC50	96h	843	mg/l	(Pimephales promelas) (Daphnia magna)		
Toxicity to daphnia:	EC50	48h	201	mg/l		OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	EC50	72h	11,8	mg/l	(Selenastrum capricornutum)	OECD 201 (Alga, Growth Inhibition Test)	

Persistence and degradability:		21d	14,5	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	
Bioaccumulative potential:	Log Pow		0,63				
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	17h	281	mg/l	(Pseudomonas putida)		
Other information:	DOC	28d	25	%			
Other information:	BOD	28d	24,7	%			

n-butyl acetate							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	48h	64	mg/l	(Brachydanio rerio)	DIN 38412 T.15	
Toxicity to daphnia:	EC50	24h	72,8	mg/l	(Daphnia magna)		
Toxicity to algae:	LC50	72h	674	mg/l	(Scenedesmus subspicatus)		
Persistence and degradability:			>70%			OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	
Bioaccumulative potential:	Log Pow		1,81				
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10		959	mg/l	(Pseudomonas putida)		

Barium sulphate							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to daphnia:	EC50	48h	32	mg/l	(Daphnia magna)		
Persistence and degradability: Results of PBT and vPvB assessment Water							Not relevant for inorganic substances. n.a.
solubility: Water			<0,01	g/l			Insoluble
solubility:			<0,01	mg/l			Insoluble 20°C, DIN EN ISO 787-8

Titanium dioxide							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>100	mg/l	(Oncorhynchus mykiss)	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	LC50	48h	>100	mg/l	(Daphnia magna)	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	EC50	72h	16	mg/l	(Pseudokirchneriella subcapitata)	U.S. EPA 600-9/78-018	
Persistence and degradability:							Not readily biodegradable
Bioaccumulative potential:							No
Mobility in soil:							Negative
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Toxicity to bacteria:			>5000	mg/l	(Pseudomonas fluorescens)		
Toxicity to bacteria:			>5000	mg/l	(Escherichia coli)		
Toxicity to bacteria:	LC0	24h	>1000 0	mg/l	(Pseudomonas fluorescens)		
Toxicity to annelids:	NOEC/NO EL		>1000	mg/kg	(Eisenia foetida)		
Water solubility:							Insoluble

Talc							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Water solubility:			< 0,1	%			

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recycling

15 01 04 metallic packaging

SECTION 14: Transport information

General statements

UN number: 1950

Transport by road/by rail (ADR/RID)

UN proper shipping name:

UN 1950 AEROSOLS

Transport hazard class(es): 2.1

Packing group: -

Classification code: 5F

LQ (ADR 2011): 1 L

LQ (ADR 2009): 2

Environmental hazards: environmentally hazardous

Tunnel restriction code: D



Transport by sea (IMDG-code)

UN proper shipping name:

AEROSOLS (ZINC PHOSPHATE)

Transport hazard class(es): 2.1

Packing group: -

EmS: F-D, S-U

Marine Pollutant: Yes

Environmental hazards: environmentally hazardous



Transport by air (IATA)

UN proper shipping name:

Aerosols, flammable

Transport hazard class(es): 2.1

Packing group: -



Environmental hazards: Not applicable

Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

For classification and labelling see Section 2.

Observe restrictions: Yes

Comply with trade association/occupational health regulations. Observe
youth employment law (German regulation).

VOC (1999/13/EC): 482 g/l

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: n.a.

The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in
Section 3).

12 Extremely flammable.

10 Flammable.

20 Harmful by inhalation.

20/21 Harmful by inhalation and in contact with skin.

21 Harmful in contact with skin.

36 Irritating to eyes.

37 Irritating to respiratory system.

38 Irritating to skin.

11 Highly flammable.

41 Risk of serious damage to eyes.

43 May cause sensitization by skin contact.

51 Toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

40 Limited evidence of a carcinogenic effect.

50 Very toxic to aquatic organisms.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H220 Extremely flammable gas.

Flam. Gas-Flammable gas

Flam. Liq.-Flammable liquid
Acute Tox.-Acute toxicity - inhalation
Acute Tox.-Acute toxicity - dermal
Skin Irrit.-Skin irritation
Eye Irrit.-Eye irritation
STOT SE-Specific target organ toxicity - single exposure - narcotic effects
Aquatic Acute-Hazardous to the aquatic environment - acute
Aquatic Chronic-Hazardous to the aquatic environment - chronic
STOT SE-Specific target organ toxicity - single exposure - respiratory tract irritation
Asp. Tox.-Aspiration hazard
Carc.-Carcinogenicity
Eye Dam.-Serious eye damage
Skin Sens.-Skin sensitization

Any abbreviations and acronyms used in this document:

AC Article Categories
acc., acc. to according, according to
ACGIH American Conference of Governmental Industrial Hygienists
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOEL Acceptable Operator Exposure Level
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF Bioconcentration factor
BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
BHT Butylhydroxytoluol (= 2,6-Di-*t*-butyl-4-methyl-phenol)
BMGV Biological monitoring guidance value (EH40, UK)
BOD Biochemical oxygen demand
BSEF Bromine Science and Environmental Forum
bw body weight
CAS Chemical Abstracts Service
CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
CIPAC Collaborative International Pesticides Analytical Council
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
COD Chemical oxygen demand
CTFA Cosmetic, Toiletry, and Fragrance Association
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon
DT50 Dwell Time - 50% reduction of start concentration
DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
ERC Environmental Release Categories
ES Exposure scenario
etc. et cetera
EU European Union
EWC European Waste Catalogue

Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
HET-CAM Hen's Egg Test - Chorionallantoic Membrane
HGWP Halocarbon Global Warming Potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC Intermediate Bulk Container
IBC (Code) International Bulk Chemical (Code)
IC Inhibitory concentration
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCID International Uniform Chemical Information Database
LC lethal concentration
LC50 lethal concentration 50 percent kill
LCLo lowest published lethal concentration
LD Lethal Dose of a chemical
LD50 Lethal Dose, 50% kill
LDLo Lethal Dose Low
LOAEL Lowest Observed Adverse Effect Level
LOEC Lowest Observed Effect Concentration
LOEL Lowest Observed Effect Level
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
NIOSH National Institute of Occupational Safety and Health (United States of America)
NOAEC No Observed Adverse Effective Concentration
NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration
NOEL No Observed Effect Level
ODP Ozone Depletion Potential
OECD Organisation for Economic Co-operation and Development
org. organic
PAH polycyclic aromatic hydrocarbon
PBT persistent, bioaccumulative and toxic
PC Chemical product category
PE Polyethylene
PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential
ppm parts per million
PROC Process category
PTFE Polytetrafluorethylene
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT Self-Accelerating Decomposition Temperature
SAR Structure Activity Relationship
SU Sector of use
SVHC Substances of Very High Concern
Tel. Telephone
ThOD Theoretical oxygen demand
TOC Total organic carbon
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.

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