

Elmotherm® VA42

Version 7.0 SDB_GB

Revision Date 12.07.2021

Print Date 13.07.2021

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

1.1 Product identifier

Trade name : Elmotherm® VA42

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

Use of the : Insulating varnish
Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : ELANTAS Europe S.r.l.
Strada Antolini 1
43044 Collecchio
Italy
Telephone : +3907363081
Telefax : +390736402746
E-mail address : msds.elantas.europe@altana.com

1.4 Emergency telephone number

+39 0736 3081 (8-17 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.

2.2 Label elements




Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	  
Signal word	:	Danger
Hazard statements	:	<div> <div>H226</div> <div>Flammable liquid and vapour.</div> </div> <div> <div>H304</div> <div>May be fatal if swallowed and enters airways.</div> </div> <div> <div>H315</div> <div>Causes skin irritation.</div> </div> <div> <div>H317</div> <div>May cause an allergic skin reaction.</div> </div> <div> <div>H319</div> <div>Causes serious eye irritation.</div> </div> <div> <div>H335</div> <div>May cause respiratory irritation.</div> </div> <div> <div>H373</div> <div>May cause damage to organs through prolonged or repeated exposure.</div> </div>
Precautionary statements	:	<div> <div>Prevention:</div> <div>P210</div> <div>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</div> </div> <div> <div>P260</div> <div>Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.</div> </div> <div> <div>P280</div> <div>Wear protective gloves/ eye protection/ face protection.</div> </div> <div> <div>Response:</div> <div>P301 + P310</div> <div>IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</div> </div> <div> <div>P331</div> <div>Do NOT induce vomiting.</div> </div> <div> <div>P370 + P378</div> <div>In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</div> </div>

Hazardous components which must be listed on the label:

Xylene, mixture of isomers

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Polymer with pigment affinic groups

Hazardous components

Chemical name	CAS-No. EC-No./List Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Xylene, mixture of isomers	1330-20-7	Flam. Liq.3; H226	>= 20 - < 25

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	01-2119488216-32	Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	
Reaction mass of ethyl benzene and xylene	Not Assigned / 01-2119539452-40	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	>= 20 - < 25
cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 01-2119524678-29	Eye Irrit.2; H319 Skin Sens.1A; H317 Repr.1B; H360F Aquatic Acute1; H400 Aquatic Chronic3; H412	>= 0,1 - < 0,25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.
Treat symptomatically.
Do not leave the victim unattended.
Consult a physician.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
Oxygen or artificial respiration if needed.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water for at least 15 minutes.
Use a mild soap if available.
Wash contaminated clothing before re-use.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Consult a physician.
Keep eye wide open while rinsing.

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Protect unharmed eye.
If eye irritation persists, consult a specialist.

If swallowed : Gently wipe or rinse the inside of the mouth with water.
Call a physician immediately.
Never give anything by mouth to an unconscious person.
Do not give milk or alcoholic beverages.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Nausea
Vomiting
Central nervous system depression

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation
with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or
carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Warning: water promotes the spread of fire.
Cool containers/tanks with water spray.
Burning produces irritant fumes.
The pressure in sealed containers can increase under the
influence of heat.
Exposure to decomposition products may be a hazard to
health.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment. Exposure to
decomposition products may be a hazard to health.

Further information : Prevent fire extinguishing water from contaminating surface
water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Remove all sources of ignition.
Ensure adequate ventilation.
Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

- Environmental precautions : Do not allow contact with soil, surface or ground water.
Local authorities should be advised if significant spillages cannot be contained.
Retain and dispose of contaminated wash water.
Prevent spreading over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Sweep up and shovel into suitable containers for disposal.
Clean contaminated surface thoroughly.

6.4 Reference to other sections

- For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Ensure all equipment is electrically grounded before beginning transfer operations.
Avoid inhalation, ingestion and contact with skin and eyes.
Keep away from fire, sparks and heated surfaces.
Keep container closed when not in use.
- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition.
- Hygiene measures : Store personal protection equipment in a clean location away from the work area. Keep working clothes separately.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Xylene, mixture of isomers	1330-20-7	TWA	50 ppm 221 mg/m ³	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m ³	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 220 mg/m ³	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	100 ppm 441 mg/m ³	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
diiron trioxide	1309-37-1	TWA (inhalable dust)	10 mg/m ³	GB EH40
		TWA (Respirable dust)	4 mg/m ³	GB EH40
cobalt bis(2-ethylhexanoate)	136-52-7	TWA	0,1 mg/m ³ (Cobalt)	GB EH40
Further information	Capable of causing occupational asthma., Capable of causing cancer and/or heritable genetic damage.			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Xylene	1330-20-7	methyl hippuric acid: 650 Millimoles per mole Creatinine (Urine)	After shift	GB EH40 BAT

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Xylene, mixture of isomers : End Use: Workers

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Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 77 mg/m³
End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute systemic effects
Value: 289 mg/m³
End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 289 mg/m³
End Use: Workers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 180 mg/kg
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 14,8 mg/m³
End Use: Consumers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 108 mg/kg
End Use: Consumers
Exposure routes: Oral
Potential health effects: Long-term systemic effects
Value: 1,6 mg/kg
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Short-term exposure
Value: 174 mg/m³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Xylene, mixture of isomers : Fresh water
Value: 0,327 mg/l
Marine water
Value: 0,327 mg/l
Fresh water sediment
Value: 12,46 mg/kg
Marine sediment
Value: 12,46 mg/kg
Soil
Value: 2,31 mg/kg
Sewage treatment plant
Value: 6,58 mg/l
Intermittent releases
Value: 0,327 mg/l

8.2 Exposure controls

Engineering measures

Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

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	Ensure that eyewash stations and safety showers are close to the workstation location. Do not wear contact lenses.
Hand protection	
Material	: Polyvinyl alcohol or nitrile- butyl-rubber gloves
Remarks	: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Material	: Protective gloves complying with EN 374.
Skin and body protection	: Workers should wear antistatic footwear. Remove and wash contaminated clothing before re-use. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: In the case of vapour formation use a respirator with an approved filter. Equipment should conform to EN 14387
Filter type	: Organic vapour type (A)
Protective measures	: Ensure that eye flushing systems and safety showers are located close to the working place. Do not wear contact lenses.

Environmental exposure controls

General advice	: Do not allow contact with soil, surface or ground water. Local authorities should be advised if significant spillages cannot be contained. Retain and dispose of contaminated wash water. Prevent spreading over a wide area (e.g. by containment or oil barriers).
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: red
Odour	: characteristic
pH	: Not applicable substance/mixture is non-soluble (in water)
Melting point/freezing point	: lower -15 °C
Boiling point/boiling range	: 137 - 143 °C
Flash point	: 40 °C Method: calculated

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Upper explosion limit	: 7 %(V)
Lower explosion limit	: 0,8 %(V)
Relative vapour density	: upper 1(Air = 1.0)
Density	: 1.000 g/l (20 °C)
Solubility(ies)	
Water solubility	: immiscible
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: > 400 °C

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Keep away from oxidizing agents, strongly acid or alkaline materials and amines.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases
Strong oxidizing agents
Strong reducing agents
Alkali metals
Alkaline earth metals

10.6 Hazardous decomposition products

Hazardous decomposition products : Stable under recommended storage conditions.
Heating can release vapours which can be ignited.
Burning produces noxious and toxic fumes.
Carbon dioxide (CO₂), carbon monoxide (CO), oxides of

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nitrogen (NO_x), dense black smoke.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: see also section 2.1

Acute inhalation toxicity : Remarks: see also section 2.1

Acute toxicity estimate : > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Remarks: see also section 2.1

Acute toxicity (other routes of administration) : Remarks: see also section 2.1

Components:

Xylene, mixture of isomers:

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 4.200 mg/kg
GLP: No information available.

Reaction mass of ethyl benzene and xylene:

Acute oral toxicity : LD50 (Rat, male): 3.523 mg/kg
Method: Directive 67/548/EEC, Annex V, B.1.

Skin corrosion/irritation

Product:

Remarks: see also section 2.1

Serious eye damage/eye irritation

Product:

Remarks: No data available

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Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

Reaction mass of ethyl benzene and xylene:

Test Type: Mouse Local Lymph Node assay (LLNA)

Exposure routes: Dermal

Species: Mouse

Method: OECD Test Guideline 429

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

Aspiration toxicity

Components:

Reaction mass of ethyl benzene and xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

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Components:

Xylene, mixture of isomers:

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l
Exposure time: 24 h
Test Type: Immobilization
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 2,2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l
Exposure time: 56 d
Species: Oncorhynchus mykiss (rainbow trout)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,17 mg/l
Exposure time: 7 d
Species: Daphnia sp. (water flea)
- NOEC: 0,96 mg/l
Exposure time: 7 d
Species: Daphnia sp. (water flea)

Reaction mass of ethyl benzene and xylene:

- Toxicity to fish : LC50 (Fish): 2,6 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l
Exposure time: 48 h
Test Type: Immobilization
- Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 2,2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to fish (Chronic toxicity) : > 1,3 mg/l
Exposure time: 56 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,96 mg/l
Exposure time: 7 d
End point: Reproduction
Species: Daphnia sp. (water flea)

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cobalt bis(2-ethylhexanoate):

M-Factor (Short-term (acute) : 1
aquatic hazard)

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

|| Xylene, mixture of isomers:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

|| Reaction mass of ethyl benzene and xylene:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Remarks: No data available

Components:

|| Xylene, mixture of isomers:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Exposure time: 56 d
Bioconcentration factor (BCF): 25,9
GLP: no

Partition coefficient: n- : Pow: 3,2 (20 °C)
octanol/water pH: 7

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or

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very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Do not dispose of with domestic refuse.
The product should not be allowed to enter drains, water courses or the soil.
Container hazardous when empty.
Dispose of in accordance with local regulations.
Can be incinerated, when in compliance with local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

- ADR/RID/ADN : UN 1263
IMDG : UN 1263
IATA : UN 1263

14.2 UN proper shipping name

- ADR/RID/ADN : PAINT
IMDG : PAINT
IATA : Paint

14.3 Transport hazard class(es)

- ADR/RID/ADN : 3
IMDG : 3
IATA : 3

14.4 Packing group

- ADR/RID/ADN
Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : D/E
- IMDG
Packing group : III

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Labels : 3
EmS Code : F-E, S-E
Remarks : IMDG Code segregation group - none

IATA

Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355
Packing group : III
Labels : 3

14.5 Environmental hazards

ADR/RID/ADN

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

Other regulations : For the product composition, we do not add any of the substances listed in the European Directive 2011/65/EU (RoHS 2, RoHS 3, and China RoHS).
The product is thus in line with those directives.
We do not add Conflict minerals to the product.

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

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.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H360F	: May damage fertility.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -

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Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Provide adequate information, instruction and training for operators.

Classification of the mixture:

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335
STOT RE 2	H373
Asp. Tox. 1	H304

Classification procedure:

On basis of test data.
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.

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