

1 Identification

- Product identifier
- Trade name: Epifanes Epoxy Primer (comp.A)
- Relevant identified uses of the substance or mixture and uses advised against
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category PROC10 Roller application or brushing
- Environmental release category ERC2 Formulation of preparations
- Application of the substance / the mixture
See our technical datasheet for application of this product.
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
W.Heeren & Zoon bv.
P.O. box 166
1430 AD Aalsmeer
Netherlands
tel.+31-(0)297-360366
fax +31-(0)297-342078
email: r&d@epifanes.nl
- Information department: environment protection department
- Emergency telephone number:
Emergency Phone Number (24 hours) CHEMTREC (800-424-9300)
Outside US: 703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36/38-43: Irritating to eyes and skin. May cause sensitisation by skin contact.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

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Trade name: Epifanes Epoxy Primer (comp.A)

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- Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system:
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- Label elements
- GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS02 GHS07 GHS08

- Signal word Warning
- Hazard-determining components of labeling:
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
titanium dioxide
Talc (Mg3H2(SiO3)4)
- Hazard statements
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
- Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 1
Fire = 3
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 1
Fire = 3
Reactivity = 0

(Contd. on page 3)

Trade name: Epifanes Epoxy Primer (comp.A)

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- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description:
Resin mixture
Solvent mixture with pigment additives

• Dangerous components:

CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide ☠ Carc. 2, H351	10-25%
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26	reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight = 700) ☒ Xi R36/38-43 ☒ N R51/53 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol R10-67 ☠ Flam. Liq. 3, H226	10-25%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene ☒ Xn R20/21 ☒ Xi R38 R10 ☠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-10%
CAS: 14807-96-6 EINECS: 238-877-9	Talc (Mg3H2(SiO3)4) ☠ Carc. 2, H351	2.5-10%
CAS: 546-93-0 EINECS: 208-915-9 Reg.nr.: 01-2119523999-20	Magnesite	≤ 2.5%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32	zinc oxide ☒ N R50/53	≤ 2.5%

• Additional information:

For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.

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- Immediately rinse with water.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

* 5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
No further relevant information available.
- Advice for firefighters
- Protective equipment: Wear fully protective suit.

* 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

* 7 Handling and storage

- Handling:
- Precautions for safe handling
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems:
No further data; see item 7.
- Control parameters

· Components with limit values that require monitoring at the workplace:

107-98-2 1-methoxy-2-propanol

Inhalative	(Tgg)time weighted average 15 min. / Exposure time	563 mg/m ³ (Algemene bevolking/ General population)
	(Tgg)time weighted average 8 hours / Exposure time	375 mg/m ³ (Algemene bevolking/ General population)

1330-20-7 xylene

Inhalative	(Tgg)time weighted average 15 min. / Exposure time	442 mg/m ³ (Algemene bevolking/ General population)
	(Tgg)time weighted average 8 hours / Exposure time	210 mg/m ³ (Algemene bevolking/ General population)

14807-96-6 Talc (Mg3H2(SiO3)4)

Inhalative	(Tgg)time weighted average 8 hours / Exposure time	0.25 mg/m ³ (Algemene bevolking/ General population)
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546-93-0 Magnesite

Inhalative	(Tgg)time weighted average 8 hours / Exposure time	10 mg/m ³ (general population)
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107-98-2 1-methoxy-2-propanol

REL	Short-term value: 540 mg/m ³ , 150 ppm Long-term value: 360 mg/m ³ , 100 ppm
TLV	Short-term value: 369 mg/m ³ , 100 ppm Long-term value: 184 mg/m ³ , 50 ppm

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1330-20-7 xylene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI

546-93-0 Magnesite

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn

· Ingredients with biological limit values:

1330-20-7 xylene

BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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· Additional information:

The lists that were valid during the creation were used as basis.

- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- Breathing equipment:
Suitable respiratory protective device recommended.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Filter AX
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact gloves made of the following materials are suitable:
PVA, fluorinated rubber
Glove thickness > 0.7mm, breakthrough time > 480 min. To EN374
- As protection from splashes gloves made of the following materials are suitable:
Nitrile
Glove thickness > 0.45 mm, breakthrough time > 30 min. to EN374
- Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Fluid
Color:	According to product specification
· Odor:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100 °C (> 212 °F)
· Flash point:	> 31 °C (> 88 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	270 °C (518 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	2.3 Vol %
Upper:	20.0 Vol %
· Vapor pressure at 20 °C (68 °F):	12 hPa (9 mm Hg)
· Density at 20 °C (68 °F):	1.734 g/cm ³ (14.47 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

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Trade name: Epifanes Epoxy Primer (comp.A)

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· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	100 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	24.4 %
VOC content:	24.4 %
	VOC content: 422.4 g/l / 3.53 lb/gl
Solids content:	75.6 % (VB% 1h150 C)
· Other information	No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:		
13463-67-7 titanium dioxide		
Oral	LD50	>20000 mg/kg bw (rat)
Dermal	LD50	>10000 mg/kg bw (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)		
Oral	LD50	11400 mg/kg bw (rat)
Dermal	LD50	>2000 mg/kg bw (rabbit)
107-98-2 1-methoxy-2-propanol		
Oral	LD50	5660 mg/kg bw (rat)
Dermal	LD50	13000 mg/kg bw (rabbit)
Inhalative	LC50/4 h	6 mg/l (rat)
1330-20-7 xylene		
Oral	LD50	4300 mg/kg bw (rat)
Dermal	LD50	2000 mg/kg bw (rabbit)
1314-13-2 zinc oxide		
Oral	LD50	7950 mg/kg bw (mouse)
		>15000 mg/kg (rat)

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Trade name: Epifanes Epoxy Primer (comp.A)

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- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
13463-67-7	titanium dioxide	2B
1330-20-7	xylene	3
14807-96-6	Talc (Mg3H2(SiO3)4)	2B
7631-86-9	silicon dioxide, chemically prepared	3
50-00-0	formaldehyde	1
14808-60-7	Quartz (SiO2)	1
· NTP (National Toxicology Program)		
50-00-0	formaldehyde	K
14808-60-7	Quartz (SiO2)	K
· OSHA-Ca (Occupational Safety & Health Administration)		
50-00-0	formaldehyde	

12 Ecological information

- Toxicity
- Aquatic toxicity:

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)		
Oral	EC50	1.1 - 3.6 mg/l ((Daphnia magna))
Inhalative	LC50/96 h	1.5 - 7.7 mg/l ((Regenboogforel))
1330-20-7 xylene		
	EC50	1 mg/l (daphnia magna) (48 uur/hour)
	LC50	13.5-2.6 mg/l (Fish Acute Toxicity Study) (96 uur/hour)
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential

1330-20-7 xylene	
Log Kow	3 (not specified)
- Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes:
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

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Trade name: Epifanes Epoxy Primer (comp.A)

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- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
- DOT, ADR, IMDG, IATA UN1263
- UN proper shipping name
- DOT CONSUMER COMMODITY, ORM-D
Paint
- ADR 1263 Paint, ENVIRONMENTALLY HAZARDOUS
- IMDG CONSUMER COMMODITY, ORM-D
PAINT
- IATA PAINT

• Transport hazard class(es)

• DOT



- Class 3 Flammable liquids
- Label 3

• ADR



- Class 3 (F1) Flammable liquids
- Label 3

• IMDG, IATA



- Class 3 Flammable liquids
- Label 3

• Packing group

- DOT, ADR, IMDG, IATA III

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Trade name: Epifanes Epoxy Primer (comp.A)

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<ul style="list-style-type: none"> Environmental hazards: Marine pollutant: Special marking (ADR): 	<p>No Symbol (fish and tree)</p>
<ul style="list-style-type: none"> Special precautions for user Danger code (Kemler): EMS Number: 	<p>Warning: Flammable liquids 30 F-E, E-S</p>
<ul style="list-style-type: none"> Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p>Not applicable.</p>
<ul style="list-style-type: none"> Transport/Additional information: DOT Quantity limitations Remarks: 	<p>On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L CERCLA/DOT RQ: 617gal./4786 lbs.</p>
<ul style="list-style-type: none"> ADR Excepted quantities (EQ) Remarks: 	<p>Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml > 450 l: 3 F1, III</p>
<ul style="list-style-type: none"> IMDG Limited quantities (LQ) Excepted quantities (EQ) Remarks: 	<p>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml > 30 l: 3, III</p>
<ul style="list-style-type: none"> UN "Model Regulation": 	<p>UN1263, Paint, ENVIRONMENTALLY HAZARDOUS, 3, III</p>

15 Regulatory information

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

Section 355 (extremely hazardous substances):

50-00-0	formaldehyde
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Section 313 (Specific toxic chemical listings):

1330-20-7	xylene
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1314-13-2	zinc oxide
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50-00-0	formaldehyde
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TSCA (Toxic Substances Control Act):

13463-67-7	titanium dioxide
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25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
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107-98-2	1-methoxy-2-propanol
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1330-20-7	xylene
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Trade name: Epifanes Epoxy Primer (comp.A)

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14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
546-93-0	Magnesite
1314-13-2	zinc oxide
68611-44-9	Silicium hydrophobised high dispersion
21645-51-2	aluminium hydroxide
68953-58-2	Ditallowdimethylammonium
7631-86-9	silicon dioxide, chemically prepared
78-83-1	butanol
1589-47-5	2-methoxypropanol
50-00-0	formaldehyde
14808-60-7	Quartz (SiO ₂)

· Proposition 65

· Chemicals known to cause cancer:

13463-67-7	titanium dioxide
50-00-0	formaldehyde
14808-60-7	Quartz (SiO ₂)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

1330-20-7	xylene	I
1314-13-2	zinc oxide	D, I, II
50-00-0	formaldehyde	B1

· TLV (Threshold Limit Value established by ACGIH)

13463-67-7	titanium dioxide	A4
1330-20-7	xylene	A4
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
50-00-0	formaldehyde	A2
14808-60-7	Quartz (SiO ₂)	A2

· MAK (German Maximum Workplace Concentration)

13463-67-7	titanium dioxide	3A
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	3B
50-00-0	formaldehyde	4
14808-60-7	Quartz (SiO ₂)	1

· NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7	titanium dioxide
50-00-0	formaldehyde
14808-60-7	Quartz (SiO ₂)

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word Warning

· Hazard-determining components of labeling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
titanium dioxide
Talc (Mg₃H₂(SiO₃)₄)

· Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	10-25

· Water hazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

· Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 03/31/2015 / 2

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association

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ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
* Data compared to the previous version altered.

None