

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/16/2021

Reviewed on 02/16/2021

1 Identification

- Product identifier
- Trade name: Epifanes Poly-Urethane Clear Satin Comp. A
- 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.+31 297-360666
fax.+31 297-342078
email:info@epifanes.nl
- Information department: Research & Development.
- 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 vapor.



GHS07

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

STOT SE 3 H336 May cause drowsiness or dizziness.

- Label elements

- GHS label elements

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

- Hazard pictograms



GHS02



GHS07

- Signal word Warning

- Hazard-determining components of labeling:

n-butyl acetate

Solvent naphtha (petroleum), light arom. (Note-P)

2-methoxy-1-methylethyl acetate

Reaction mass of bis(1,2,2,6,6-pentamethyl-4

piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

2-hydroxyethyl methacrylate

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methyl methacrylate

· Hazard statements

- H226 Flammable liquid and vapor.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.

· Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- 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): 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 = 0
Fire = 2
Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0
Fire = 2
Reactivity = 0

· 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 additives

· Dangerous components:

CAS: 123-86-4	n-butyl acetate	10-25%
EINECS: 204-658-1	⚠ Flam. Liq. 3, H226	
Index number: 607-025-00-1	⚠ STOT SE 3, H336	

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CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	2.5-10%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4	Solvent naphtha (petroleum), light arom. (Note-P) Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335-H336	2.5-10%
CAS: 623-84-7 EINECS: 210-817-6	propane-1,2-diyl diacetate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 Flam. Liq. 4, H227	2.5-10%
CAS: 1065336-91-5 EC number: 915-687-0	Reaction mass of bis(1,2,2,6,6-pentamethyl-4 piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Skin Sens. 1A, H317	≤1%
CAS: 97-86-9 EINECS: 202-613-0 Index number: 607-113-00-X	isobutyl methacrylate Flam. Liq. 3, H226 Skin Irrit. 2, H315; Skin Sens. 1B, H317; STOT SE 3, H335	<0.3%
CAS: 868-77-9 EINECS: 212-782-2 Index number: 607-124-00-X	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	<0.3%
CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	<0.3%

Additional information:

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

4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- 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.
Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Seek medical treatment.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed
No further relevant information available.

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- 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
During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- Protective equipment:
Wear fully protective suit.
Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
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).
Dispose contaminated material as waste according to item 13.
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.
- Protective Action Criteria for Chemicals

· PAC-1:

123-86-4	n-butyl acetate	5 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
75-65-0	2-methylpropan-2-ol	150 ppm
868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m ³
80-62-6	methyl methacrylate	17 ppm
122-99-6	2-Phenoxyethanol	1.5 ppm
70657-70-4	2-methoxypropyl acetate	50 ppm
111-66-0	oct-1-ene	40 ppm

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· PAC-2:		
123-86-4	n-butyl acetate	200 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
75-65-0	2-methylpropan-2-ol	1,300 ppm
868-77-9	2-hydroxyethyl methacrylate	21 mg/m ³
80-62-6	methyl methacrylate	120 ppm
122-99-6	2-Phenoxyethanol	16 ppm
70657-70-4	2-methoxypropyl acetate	1,000 ppm
111-66-0	oct-1-ene	800* ppm
· PAC-3:		
123-86-4	n-butyl acetate	3000* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m ³
75-65-0	2-methylpropan-2-ol	8000* ppm
868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m ³
80-62-6	methyl methacrylate	570 ppm
122-99-6	2-Phenoxyethanol	97 ppm
70657-70-4	2-methoxypropyl acetate	5,000 ppm
111-66-0	oct-1-ene	2000* ppm

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.
Keep respiratory protective device available.
- 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.

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- Control parameters
- Components with limit values that require monitoring at the workplace:
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

123-86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm
108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm
80-62-6 methyl methacrylate	
PEL	Long-term value: 410 mg/m ³ , 100 ppm
REL	Long-term value: 410 mg/m ³ , 100 ppm
TLV	Short-term value: 410 mg/m ³ , 100 ppm Long-term value: 205 mg/m ³ , 50 ppm DSEN
123-86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm
108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm
80-62-6 methyl methacrylate	
PEL	Long-term value: 410 mg/m ³ , 100 ppm
REL	Long-term value: 410 mg/m ³ , 100 ppm
TLV	Short-term value: 410 mg/m ³ , 100 ppm Long-term value: 205 mg/m ³ , 50 ppm DSEN

- Regulatory information
PEL: Guide to Occupational Exposure Values (OSHA PELs)
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (TLV)
WEEL: Guide to Occupational Exposure Values (AIHA WEELs)
- Additional information:
The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

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- **Breathing equipment:**
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.

- **Penetration time of glove material**

The exact break through 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:**
PE gloves, recommended film thickness:> 0.7 mm.

For a touch of 30-120 minutes: gloves made of PVA, recommended material thickness: 0.7 mm.

- **As protection from splashes gloves made of the following materials are suitable:**

Gloves of nitrile rubber, recommended material thickness:> 0.3 mm,
neoprene or butyl rubber, recommended material thickness:> 0.4 mm.

- **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

- **Odor threshold:**

Not determined.

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· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	42 °C (107.6 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	315 °C (599 °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:	1.2 Vol %
Upper:	10.8 Vol %
· Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
· Density at 20 °C (68 °F):	1.07 g/cm ³ (8.92915 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/ water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	40 s (ISO 6 mm)
· Solvent content:	
Organic solvents:	31.6 %
VOC content:	31.61 %
	VOC content: 338.2 g/l / 2.82 lb/gal
Solids content:	43.7 % (VB% 1h150 C)
· Other information	No further relevant information available.

10 Stability and reactivity

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

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- 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:

123-86-4 n-butyl acetate

Oral	LD50	13100 mg/kg bw (rat)
Dermal	LD50	>5000 mg/kg bw (rabbit)
Inhalative	LC50/4 h	>21 mg/l (rat)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8532 mg/kg bw (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

64742-95-6 Solvent naphtha (petroleum), light arom. (Note-P)

Oral	LD50	3592 mg/kg (rat)
Dermal	LD50 (Konijn)	3160 mg/kg (rabbit)
Inhalative	LC50 (rat)	>6193 mg/m ³ (rat)

623-84-7 propane-1,2-diyl diacetate

Oral	LD50	5000 mg/kg bw (rat)
Dermal	LD50	2000 mg/kg bw (rab)

97-86-9 isobutyl methacrylate

Oral	LD50	11990 mg/kg bw (mouse)
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868-77-9 2-hydroxyethyl methacrylate

Oral	LD50	5050 mg/kg bw (rat)
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80-62-6 methyl methacrylate

Oral	LD50	7872 mg/kg bw (rat)
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- Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: No 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)

7631-86-9	silicon dioxide, chemically prepared	3
80-62-6	methyl methacrylate	3

- NTP (National Toxicology Program)
- None of the ingredients is listed.

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- OSHA-Ca (Occupational Safety & Health Administration)
- None of the ingredients is listed.

12 Ecological information

- Toxicity

- Aquatic toxicity:

108-65-6 2-methoxy-1-methylethyl acetate

EC50 408-500 mg/l (daphnia magna) (48 uur/hour)

IC 50 >1000 mg/l (Algae, Growth inhibition test) (72 uur/hour)

LC50 100-180 mg/l (Fish Acute Toxicity Study) (96 uur/hour)

- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 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, IATA UN1263
- ADR, IMDG Void
- UN proper shipping name
- DOT CONSUMER COMMODITY, ORM-D
Paint
- ADR Void
- IMDG CONSUMER COMMODITY, ORM-D
Void

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· IATA	PAINT
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
· ADR, ADN, IMDG	
· Class	Void
· IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IATA	III
· ADR, IMDG	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· Remarks:	CERCLA/DOT RQ: 617gal./4786 lbs.
· ADR	
· Remarks:	> 450 l: 3 F1, III
· IMDG	
· Remarks:	> 450 l: 3, III
· UN "Model Regulation":	Void

US

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15 Regulatory information

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

- Section 355 (extremely hazardous substances):

None of the ingredient is listed.

- Section 313 (Specific toxic chemical listings):

75-65-0	2-methylpropan-2-ol
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80-62-6	methyl methacrylate
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122-99-6	2-Phenoxyethanol
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- TSCA (Toxic Substances Control Act):

123-86-4	n-butyl acetate	ACTIVE
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108-65-6	2-methoxy-1-methylethyl acetate	ACTIVE
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64742-95-6	Solvent naphtha (petroleum), light arom. (Note-P)	ACTIVE
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623-84-7	propane-1,2-diyl diacetate	ACTIVE
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7631-86-9	silicon dioxide, chemically prepared	ACTIVE
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37625-56-2	2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol Polymer	ACTIVE
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127519-17-9	A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates	ACTIVE
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75-65-0	2-methylpropan-2-ol	ACTIVE
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97-86-9	isobutyl methacrylate	ACTIVE
---------	-----------------------	--------

868-77-9	2-hydroxyethyl methacrylate	ACTIVE
----------	-----------------------------	--------

80-62-6	methyl methacrylate	ACTIVE
---------	---------------------	--------

122-99-6	2-Phenoxyethanol	ACTIVE
----------	------------------	--------

3648-18-8	dioctyltin dilaurate	ACTIVE
-----------	----------------------	--------

111-66-0	oct-1-ene	ACTIVE
----------	-----------	--------

- Hazardous Air Pollutants

80-62-6	methyl methacrylate
---------	---------------------

- Proposition 65

- Chemicals known to cause cancer:

None of the ingredients is listed.

- 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.

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· Cancerogenity categories

· EPA (Environmental Protection Agency)

80-62-6	methyl methacrylate	E, NL
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· TLV (Threshold Limit Value)

75-65-0	2-methylpropan-2-ol	A4
80-62-6	methyl methacrylate	A4

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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

None of the ingredients is listed.

· GHS label elements

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

· Hazard pictograms



GHS02 GHS07

· Signal word Warning

· Hazard-determining components of labeling:

n-butyl acetate
Solvent naphtha (petroleum), light arom. (Note-P)
2-methoxy-1-methylethyl acetate
Reaction mass of bis(1,2,2,6,6-pentamethyl-4
piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
2-hydroxyethyl methacrylate
methyl methacrylate

· Hazard statements

H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
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): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- National regulations:
- Technical instructions (air):

Class	Share in %
NK	25-50

- Water hazard class:
Water hazard class 1 (Self-assessment): slightly 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.

- Department issuing SDS: Environment protection department.
- Contact: J.J. van Dijk
- Date of preparation / last revision 02/16/2021 / 5
- 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 relatif au transport international 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
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
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 2: Flammable liquids - Category 2
Flam. Liq. 3: Flammable liquids - Category 3
Flam. Liq. 4: Flammable liquids - Category 4
Skin Irrit. 2: Skin corrosion/irritation - Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A
Skin Sens. 1: Skin sensitisation - Category 1
Skin Sens. 1A: Skin sensitisation - Category 1A
Skin Sens. 1B: Skin sensitisation - Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
Asp. Tox. 1: Aspiration hazard - Category 1
- Sources None
- * Data compared to the previous version altered.