

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 13.03.2023

Version number 37 (replaces version 36)

Revision: 13.03.2023

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

· **1.1 Product identifier**

· **Trade name:** **DiamondSphere Grip Seal Coat**
 · **Article number:** S8_718-69-368/37
 · **UFI:** 2CD0-S036-S008-N790

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

ATTENTION! DO NOT SPRAY!

· **Sector of Use**

SU19 Building and construction work
 SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· **Product category**

PC1 Adhesives, sealants
 PC9a Coatings and paints, thinners, paint removers
 PC9b Fillers, putties, plasters, modelling clay

· **Process category**

PROC10 Roller application or brushing
 PROC19 Manual activities involving hand contact

· **Environmental release category**

ERC5 Use at industrial site leading to inclusion into/onto article
 ERC8c Widespread use leading to inclusion into/onto article (indoor)
 ERC8f Widespread use leading to inclusion into/onto article (outdoor)

· **Article category**

AC13 Plastic articles

· **Application of the substance / the mixture**

Coating compound/ Surface coating/ paint

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Dutch Design (UK) Systems Limited
T/A SPHERE 8

Unit 1, Five Eastfields Avenue
 London SW18 1FU
 +44 (0) 208 969 0183
 info@sphere8.com

· **Further information obtainable from:**

Technical Advice: Gert de Graaf

· **1.4 Emergency telephone number:**

During / out of office hours:
 +44 (0) 7551 417891 - Steve Andrews or +44 (0) 7787 557256 - Paul Beard

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4 H332 Harmful if inhaled.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 Repr. 1B H360 May damage fertility or the unborn child.
 STOT SE 3 H335 May cause respiratory irritation.
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS07 GHS08

· **Signal word**

Danger

· **Hazard-determining components of labelling:**

Hexamethylene diisocyanate, oligomers
 dibutyltin dilaurate
 Bis(2,3-epoxypropyl)cyclohexane-1,2-dicarboxylate
 hexamethylene-di-isocyanate
 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-
 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-

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Hazard statements

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
methyl-1,2,2,6,6,-pentamethyl-4-piperidylsebacate
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.
Restricted to professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

There are no additional ingredients present which are classified as hazardous to health or the environment and on this basis need to be mentioned in this section.

Dangerous components:

CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17-0000 01-2119970543-34-0001	Hexamethylene diisocyanate, oligomers ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	25-100%
CAS: 28182-81-2 Reg.nr.: 01-2119970543-34-0001 01-2119485796-17-0002	Hexamethylene diisocyanate, oligomers ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	10-25%
CAS: 108-32-7 EINECS: 203-572-1 Reg.nr.: 01-2119537232-48	propylene carbonate ⚠ Eye Irrit. 2, H319	2.5-5%
CAS: 5493-45-8 EINECS: 226-826-3	Bis(2,3-epoxypropyl)cyclohexane-1,2-dicarboxylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2.5-5%
CAS: 104810-48-2 ELINCS: 400-830-7 Reg.nr.: 01-0000015075-76-0013	poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy- ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	≤2.5%
CAS: 104810-47-1 ELINCS: 400-830-7	poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	≤2.5%
CAS: 41556-26-7 EINECS: 255-437-1	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate ⚠ Repr. 2, H361; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	≤2.5%
CAS: 77-58-7 EINECS: 201-039-8	dibutyltin dilaurate ⚠ Muta. 2, H341; Repr. 1B, H360; STOT RE 1, H372; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≤0.5%
CAS: 398475-96-2	1,2-Ethanediamine, polymer with aziridine, reaction product with 2-propenoic acid, 2-ethylhexyl ester, salt with oxirane, methyl-, polymer with oxirane, monobutyl ether, phosphate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤0.5%

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CAS: 82919-37-7 EINECS: 280-060-4	methyl-1,2,2,6,6,-pentamethyl-4-piperidylsebacate ⚠ Repr. 2, H361; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	≤0.5%
CAS: 822-06-0 EINECS: 212-485-8 Reg.nr.: 01-2119485796-17-0001 01-2119457571-37-000X 01-211947571-37-0001	hexamethylene-di-isocyanate ⚠ Acute Tox. 1, H330; ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	≤0.2%

· **Additional information:**

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

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.



Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

· **After skin contact:**

In case of unconsciousness place patient stably in side position for transportation.

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:**

If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**



CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Mount respiratory protective device.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

PSA 52 / PSA 55 / PSA 56 / PSA 57

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Not required.

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- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 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.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
Store away from oxidising agents.
- **Further information about storage conditions:** Protect from frost.
Keep container tightly sealed.
Store in dry conditions.
Store in a cool place.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

822-06-0 hexamethylene-di-isocyanate

WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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· **DNELs**

28182-81-2 Hexamethylene diisocyanate, oligomers

Dermal	Shortterm value	mg/kg (Worker local) mg/kg (Worker system-related)
	Longterm value	mg/cm ² (Worker local) mg/cm ² (Worker system-related)
Inhalative	Shortterm value	1 mg/m ³ (Worker local) mg/m ³ (Worker system-related)
	Longterm value	0.5 mg/m ³ (Worker local) mg/m ³ (Worker system-related)

· **PNECs**

28182-81-2 Hexamethylene diisocyanate, oligomers

Soil	1.33 mg/kg (PNEC Freshwater Sediment) 0.066 mg/kg (PNEC Soil)
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Water	0.133 mg/kg (PNEC Seawater Sediment)
	0.005 mg/l (PNEC Seawater)
	55.6 mg/l (PNEC Wastewater treatment)
	0.05 mg/l (PNEC Water)

· Ingredients with biological limit values:

822-06-0 hexamethylene-di-isocyanate

BMGV (Great Britain)	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period of exposure Parameter: isocyanate-derived diamine
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· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as 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.
Store protective clothing separately.
Do not eat, drink, smoke or sniff while working.

· Respiratory protection:



Only during spraying without adequate removal by suction.

Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when high concentrations are present.

· Recommended filter device for short term use:

Combination filter A-P2

· Hand protection



Protective gloves

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

· 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.
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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

Nitrile rubber, NBR
Natural rubber, NR

· Eye/face protection



Tightly sealed goggles

· Body protection:



(Protective) work clothing

- Protective work clothing (long trousers, long-sleeved shirt). Avoid exposed skin, even in hot weather.
- Depending on processing: use spray-tight trousers or spray-tight overalls

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· Physical state	Fluid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	Undetermined.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	180 °C
· Decomposition temperature:	Not determined.
· pH	Mixture is non-polar/aprotic.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1.159 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· **9.2 Other information**

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard. Not determined.
· Solvent content:	
· Organic solvents:	3.4 %
· Solids content:	37.3 %
· Change in condition	
· Evaporation rate	Not determined.

· **Information with regard to physical hazard classes**

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void

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· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008	
· Acute toxicity	Harmful if inhaled.

· **LD/LC50 values relevant for classification:**

28182-81-2 Hexamethylene diisocyanate, oligomers

Oral	OECD 401 (LD50)	>5,000 mg / kg (rat)
Dermal	OECD 402 (LD50)	>2,000 mg/kg (rat) >2,000 mg/kg (rabbit)
Inhalative	OECD 403 (LC50)	0.402 mg/l (rat) (04 h)
Irritation of skin	OECD 404	(rabbit) (04 h)
	OECD 406	(marmot (Magnusson-Kligman test))
Irritation of eyes	OECD 405	(rabbit)

· Skin corrosion/irritation	Based on available data, the classification criteria are not met.
· Serious eye damage/irritation	Based on available data, the classification criteria are not met.
· Respiratory or skin sensitisation	May cause an allergic skin reaction.

28182-81-2 Hexamethylene diisocyanate, oligomers

Irritation of skin	OECD 429	(mouse)
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· Germ cell mutagenicity	Based on available data, the classification criteria are not met.
· Carcinogenicity	Based on available data, the classification criteria are not met.
· Reproductive toxicity	May damage fertility or the unborn child.
· STOT-single exposure	May cause respiratory irritation.
· STOT-repeated exposure	Based on available data, the classification criteria are not met.
· Aspiration hazard	Based on available data, the classification criteria are not met.
· Additional toxicological information:	

· **Repeated dose toxicity**

28182-81-2 Hexamethylene diisocyanate, oligomers

Inhalative	OECD 413	3.3 mg/m ³ (rat) (90 d)
	OECD 473	(Chinese hamster ovary (CHO) cells)
	OECD 476	(Chinese hamster ovary (CHO) cells)

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	Repr. 1B
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· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

556-67-2	octamethylcyclotetrasiloxane	List II, III
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	List II

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540-97-6 Dodecamethylcyclohexasiloxane

List II

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

28182-81-2 Hexamethylene diisocyanate, oligomers

BCF (BioConcentrationFactor) - Bioaccumulation	9.6
OECD 117 (log Pow) - Bioaccumulation	
OECD 201 (ErC50/ErL50)	>100 mg/l (Desmodemus subspicatus) (72 h) >100 mg/l (scenedesmus subspicatus) (72 h)
OECD 202 (EC50/EL50)	>100 mg/l (Daphnia Magna) (48 h)
OECD 203 (LC50/LL50)	>100 mg/l (Danio rerio) (96 h)
OECD 209 (EC50/EL50)	645.7 mg/l (Activated sludge) (03 h)
OECD 301 D	0 % (28 d)
OECD 471	(Ames Test (Salmonella/microsome test))

· **12.2 Persistence and degradability**

No further relevant information available.

· **12.3 Bioaccumulative potential**

No further relevant information available.

· **12.4 Mobility in soil**

No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:**

Not applicable.

· **vPvB:**

Not applicable.

· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Remark:**

Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (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.
Harmful to aquatic organisms

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, ADN, IMDG, IATA**

Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA**

Void

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· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS07 GHS08

· **Signal word**

Danger

· **Hazard-determining components of labelling:**

Hexamethylene diisocyanate, oligomers
dibutyltin dilaurate
Bis(2,3-epoxypropyl)cyclohexane-1,2-dicarboxylate
hexamethylene-di-isocyanate
poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-
poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-

· **Hazard statements**

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
methyl-1,2,2,6,6,-pentamethyl-4-piperidylsebacate
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I**

None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII**

Conditions of restriction: 3, 20, 30, 74

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
I	0.2
NK	3.4

· **Waterhazard class:**

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

· **Other regulations, limitations and prohibitive regulations**

www.ERICARDS.net

· **VOC**

· **VOC EU [%]**

3.41 %

· **VOC EU [g/l]**

39.6 g/l

· **VOC USA**

0.2 g/l / 0.00 lb/gal

· **VOC CH**

0.01 %

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 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.

· **Relevant phrases**

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H360 May damage fertility or the unborn child.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
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.
H412 Harmful to aquatic life with long lasting effects.
EUH204 Contains isocyanates. May produce an allergic reaction.

· **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:**

Product Development

· **Contact:**

Technical Manager: +44 (0) 20 8969 0183

· **Date of previous version:**

24.01.2022

· **Version number of previous version:**

36

· **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)

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Safety data sheet

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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
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 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)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 1: Acute toxicity – Category 1
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Resp. Sens. 1: Respiratory sensitisation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Muta. 2: Germ cell mutagenicity – Category 2
 Repr. 1B: Reproductive toxicity – Category 1B
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * **Data compared to the previous version altered.**

Annex: Exposure scenario

- **Short title of the exposure scenario**
 - **Sector of Use**
 - **Product category**
 - **Process category**
 - **Article category**
 - **Environmental release category**
 - **Description of the activities / processes covered in the Exposure Scenario**
 - **Conditions of use**
 - **Duration and frequency**
 - **Worker**
 - **Environment**
 - **Physical parameters**
 - **Physical state**
 - **Concentration of the substance in the mixture**
 - **Used amount per time or activity**
 - **Other operational conditions**
 - **Other operational conditions affecting environmental exposure**
 - **Other operational conditions affecting worker exposure**
- SU19 Building and construction work
 SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 PC1 Adhesives, sealants
 PC9a Coatings and paints, thinners, paint removers
 PC9b Fillers, putties, plasters, modelling clay
 PROC10 Roller application or brushing
 PROC19 Manual activities involving hand contact
 AC13 Plastic articles
 ERC5 Use at industrial site leading to inclusion into/onto article
 ERC8c Widespread use leading to inclusion into/onto article (indoor)
 ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- See section 1 of the annex to the Safety Data Sheet.
 According to directions for use.
 4 hrs (half working shift).
 Occasional application with short-time exposure.
 The product must not enter the sewage system or the aquatic environment.
 The product may not be released into the environment without control.
 The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
 Fluid
 The substance is main component.
 0.01 tons per day
 Observe the general safety regulations when handling chemicals.
 No special measures required.
 Indoor application.
 Outdoor application.
 Avoid contact with the skin.
 Avoid long-term or repeated skin contact.

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<ul style="list-style-type: none"> · Other operational conditions affecting consumer exposure · Other operational conditions affecting consumer exposure during the use of the product · Risk management measures · Worker protection · Organisational protective measures · Technical protective measures · Personal protective measures · Measures for consumer protection · Environmental protection measures · Air · Water · Notes · Disposal measures · Disposal procedures · Waste type · Exposure estimation · Worker (oral) · Worker (dermal) · Worker (inhalation) · Consumer · Guidance for downstream users 	<p><i>Do not breathe gas/vapour/aerosol.</i></p> <p><i>The product may be delivered to retail sellers only in small packing units.</i></p> <p><i>The directions for use must indicate the limits for proper use.</i></p> <p><i>No special measures required.</i></p> <p><i>Ensure that suitable extractors are available on processing machines</i></p> <p><i>Do not inhale gases / fumes / aerosols.</i></p> <p><i>Avoid contact with the skin.</i></p> <p><i>Pregnant women should strictly avoid inhalation or skin contact.</i></p> <p><i>Only during spraying without adequate removal by suction.</i></p> <p><i>Use suitable respiratory protective device in case of insufficient ventilation.</i></p> <p><i>Use suitable respiratory protective device when high concentrations are present.</i></p> <p><i>Protective gloves</i></p> <p><i>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.</i></p> <p><i>Ensure adequate labelling.</i></p> <p><i>Keep product waste away from uncontaminated waste.</i></p> <p><i>Exhaust air is introduced into the adsorption tower.</i></p> <p><i>No special measures required.</i></p> <p><i>In case of unintended release of the product: See section 6 of the Safety Data Sheet.</i></p> <p><i>Ensure that waste is collected and contained.</i></p> <p><i>Must not be disposed together with household garbage. Do not allow product to reach sewage system.</i></p> <p><i>Partially emptied and uncleaned packaging</i></p> <p><i>The exposure estimation was carried out in accordance with ECETOC TRA.</i></p> <p><i>The exposure estimation was carried out in accordance with ECETOC TRA.</i></p> <p><i>The calculated value is smaller than the DNEL.</i></p> <p><i>Not relevant for this Exposure Scenario.</i></p> <p><i>No further relevant information available.</i></p>
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