08.04.2022	Kit components	
Product code	Description	
457	Double Coat Karaat set	
Components:		
455	Double Coat Karaat basis	
456	Double Coat Karaat verharder	



Printing date 08.04.2022 Version number 43 Revision: 08.04.2022

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

· 1.1 Product identifier

· Trade name: Double Coat Karaat basis

· Article number: 455

· UFI: 6205-N0Y5-F00D-AY9V

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

· Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

SU19 Building and construction work

Product category
 PC9a Coatings and paints, thinners, paint removers
 Process category
 PROC19 Manual activities involving hand contact

PROC7 Industrial spraying

PROC10 Roller application or brushing PROC11 Non industrial spraying

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 AC11 Wood articles

· Application of the substance / the

mixture

See our technical datasheet for application details of this product.

Polyurethane lacquer

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht

Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl

· Further information obtainable

· 1.4 Emergency telephone

Research and Development.

number: De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl

Office hours: working days from 08:00 to 17:00 hrs.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

(I) GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H336 May cause drowsiness or dizziness.

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

· Hazard statements

GHS02 GHS07

· Signal word Warning

· Hazard-determining components of

labelling: 2-ethoxy-1-methylethyl acetate

2-methoxy-1-methylethyl acetate

Reactionmass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacat and methyl 1,2,2,6,6-

pentamethyl-4-piperidyl sebacat H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

(Contd. on page 2)



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Trade name: Double Coat Karaat basis

(Contd. of page 1)

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/

national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

⋅ PBT: Not applicable.⋅ ∨P∨B: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 54839-24-6 EINECS: 259-370-9 Index number: 603-177-00-8 Reg.nr.: 01-2119475116-39	2-ethoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	10 – 25%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	10 – 25%
CAS: 108-32-7 EINECS: 203-572-1 Index number: 607-194-00-1 Reg.nr.: 01-2119537232-48	propylene carbonate © Eye Irrit. 2, H319	2.5 – 10%
EC number: 915-687-0 Reg.nr.: 01-2119491304-40	Reactionmass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacat and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacat Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	0.5 – 1%

· 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.

· 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. · 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 or powder. Fight larger fires with alcohol resistant foam.

For safety reasons unsuitable

extinguishing agents: Water with full jet

5.2 Special hazards arising from

(Contd. on page 3)



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(Contd. of page 2)

· 5.3 Advice for firefighters

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. · 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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and

explosion protection:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles:

Information about storage in one

common storage facility: · Further information about storage

conditions:

· Recommended storage

No special requirements.

Not required.

Keep container tightly sealed.

temperature:

5 - 30 \square

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Additional information about

design of technical facilities: No further data; see item 7

design of technical resimilation.		
· Ingredients with limit values that require monitoring at the workplace:		
108-65-6 2-methoxy-1-methylethyl acetate		
IOELV Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin		
· DNEL (Derived No Effect Level) for workers		

Lo	ong-term value: 350 mg/m³, 100 ppm ong-term value: 275 mg/m³, 50 ppm kin			
· DNEL (De	rived No Effect Level) for workers			
54839-24-	-6 2-ethoxy-1-methylethyl acetate			
Dermal	Long-term - systemic effects, worker	103 mg/kg bw/day (Worker)		
Inhalative	Acute - systemic effects, worker	608 mg/m³ (Worker)		
	Long-term - systemic effects, worker	302 mg/m³ (Worker)		
108-65-6	2-methoxy-1-methylethyl acetate			
Dermal	Long-term - systemic effects, worker	153.5 mg/kg bw/day (Worker)		
Inhalative	Long-term - systemic effects, worker	275 mg/m³ (Worker)		
108-32-7	108-32-7 propylene carbonate			
Dermal	Long-term - systemic effects, worker	50 mg/kg bw/day (Worker)		
Inhalative	Long-term - systemic effects, worker	176 mg/m³ (Worker)		
•	•	(Contd. on page 4)		

(Contd. on page 4)



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Trade name: Double Coat Karaat basis

	Long-term - local effects, worker 2	00 ma/m³ ((Contd. of page 3)	
Reactions	Long-term - local effects, worker 20 mg/m³ (Worker) Reactionmass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacat and methyl 1,2,2,6,6-pentamethyl-4-piperidyl seba			
Redectioni	11033 01 013(1,2,2,0,0-perituilletilyi-4-p	iperiayi, s	obacat and methyr 1,2,2,0,0-pentamethyr-4-pipenayr sobaca	
Dermal	Acute - systemic effects, worker	2.5 mg/kg l	ow/day (Worker)	
Inhalative	1	2.35 mg/m ³	- '	
	Long-term - systemic effects, worker 2	2.35 mg/m ³	(Worker)	
· DNEL (De	rived No Effect Level) for the general po	pulation	· · · · · · · · · · · · · · · · · · ·	
`	6 2-ethoxy-1-methylethyl acetate	<u>. </u>		
Oral	Long-term - systemic effects, general p	opulation	13.1 mg/kg bw/day (General population)	
Dermal	Long-term - systemic effects, general p	opulation	62 mg/kg bw/day (General population)	
Inhalative	Acute - systemic effects, general popu	lation	365 mg/m³ (General population)	
	Long-term - systemic effects, general p	opulation	181 mg/m³ (General population)	
108-65-6	2-methoxy-1-methylethyl acetate			
Oral	Long-term - systemic effects, general բ	opulation	1.67 mg/kg bw/day (General population)	
Dermal	Long-term - systemic effects, general բ	opulation	54.8 mg/kg bw/day (General population)	
Inhalative	Long-term - systemic effects, general բ	opulation	33 mg/m³ (General population)	
108-32-7	propylene carbonate			
Oral			25 mg/kg bw/day (General population)	
Dermal	Long-term - systemic effects, general բ	opulation	25 mg/kg bw/day (General population)	
Inhalative	Long-term - local effects, general popu	lation	10 mg/m³ (General population)	
Reaction	mass of bis(1,2,2,6,6-pentamethyl-4-p	iperidyl) s	ebacat and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebaca	
Oral	Acute - systemic effects, general popu		1.25 mg/kg bw/day (General population)	
		-	1.25 mg/kg bw/day (General population)	
Dermal	Acute - systemic effects, general popu		1.25 mg/kg bw/day (General population)	
	1	-	1.25 mg/kg bw/day (General population)	
Inhalative	Acute - systemic effects, general popu		0.58 mg/m³ (General population)	
Long-term - systemic effects, general population 0.58 mg/m³ (General population)			0.58 mg/m³ (General population)	
•	edicted No Effect Concentration) values	i 		
	6 2-ethoxy-1-methylethyl acetate	140 "		
-	ompartment - freshwater	1.3 mg/l		
-	ompartment - marine water	0.13 mg		
-	ompartment - sediment in freshwater	_	kg sed dw	
•	ompartment - sediment in marine water	_	/kg sed dw	
	compartment - soil	_	1.34 mg/kg dw	
	eatment plant	62.5 mg	//	
	2-methoxy-1-methylethyl acetate	0 625 m	all (Freehweter)	
-	ompartment - freshwater		g/l (Freshwater)	
-	ompartment - marine water		0.0635 mg/l (Marine water)	
-	· · · · · · · · · · · · · · · · · · ·	_	6.35 mg/l (Intermittent release water)	
•	ompartment - sediment in freshwater	_	3.29 mg/kg sed dw (Sediment freshwater)	
Aquatic compartment - sediment in marine water			0.329 mg/kg sed dw (Marine water)	
Terrestrial compartment - soil Sewage treatment plant		_	0.29 mg/kg dw (Soil) 100 mg/l (stp)	
		100 mg/	ι (οιh)	
108-32-7 propylene carbonate Aquatic compartment - freshwater 0.9 mg/l (Freshwater)				
Aquatic compartment - neshwater Aquatic compartment - marine water		_	0.09 mg/l (Marine water)	
Aquatic compartment - marine water Aquatic compartment - water, intermittent releases		_	- '	
			/kg dw (Soil)	
Sewage treatment plant		7,400 mg/l (stp)		
Reactionmass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacat and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacat				
		- ₁		
Aquatic co	ompartment - freshwater	0.0022	mg/l (Freshwater)	
		-	(Contd. on page 5)	



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(Contd. of page 4) 0.00022 mg/l (Marine water) Aquatic compartment - marine water Aguatic compartment - water, intermittent releases 0.009 mg/l (Intermittent release water) Aquatic compartment - sediment in freshwater 1.05 mg/kg sed dw (Sediment freshwater) Aquatic compartment - sediment in marine water 0.11 mg/kg sed dw (Sediment marine water) Terrestrial compartment - soil 0.21 mg/kg dw (Soil) Sewage treatment plant 1 mg/l (stp)

Additional information: The lists valid during the making were used as basis.

· 8.2 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.

· Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of

intensive or longer exposure use self-contained respiratory protective device.

· 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 Nitrile rubber, NBR

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.

Recommended thickness of the material: ≥ 0.3 mm

· 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 mixture of chemicals mentioned below the penetration time has to be at least

480 minutes (Permeation according to EN 16523-1:2015: Level 6).

· For the permanent contact gloves made of the following materials are

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

suitable:

Not suitable are gloves made of

· Eye protection:

the following materials:

Leather gloves

Nitrile rubber, NBR

Nitrile rubber, NBR

Strong material gloves Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information			
· Appearance:			
Form:	Fluid		
Colour:	According to product specification		
· Odour:	Characteristic		
· Odour threshold:	Not determined.		
· pH-value at 20 °C:	7		
Change in condition Melting point/freezing point: Initial boiling point and boiling rang	Undetermined. e: 146 °C		
· Flash point:	44 °C (Pensky Martens, ASTM D93)		
· Flammability (solid, gas):	Not applicable.		
· Ignition temperature:	315 °C		
· Decomposition temperature:	Not determined.		

(Contd. on page 6)



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Trade name: Double Coat Karaat basis

(Contd. of page 5)

	(Contd. of page 5)
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits: Lower: Upper:	1.5 Vol % 10.8 Vol %
· Vapour pressure at 20 °C:	3.4 hPa
Density at 20 °C: Relative density Vapour density Evaporation rate	1.079 g/cm³ (DIN 51757, ASTM D 1298) Not determined. Not determined. Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents: VOC (2004/42/EC):	49.8 % 49.78 %
Solids content:	48.5 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

 Thermal decomposition / conditions to be avoided:

· 10.3 Possibility of hazardous

reactions

10.4 Conditions to avoid
10.5 Incompatible materials:

· 10.6 Hazardous decomposition

products:

No dangerous decomposition products known.

No further relevant information available.

No further relevant information available.

No dangerous reactions known.

No decomposition if used according to specifications.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

· Components	Туре	Value	Species			
108-65-6 2-methoxy-1-methylethyl acetate						
Oral LD50 8,532 mg/kg (Rat)						
108-32-7 propylene carbonate						
Oral LD50 29,000 m	g/kg (Rat)					

· Primary irritant effect:

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

Respiratory or skin sensitisation May cause Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

• Germ cell mutagenicity
• Carcinogenicity
• Reproductive toxicity

· STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.

(Contd. on page 7)



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Trade name: Double Coat Karaat basis

(Contd. of page 6)
· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

· Type of test Effective concentration Method Assessment

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

Inhalative LC50/4 h 35.7 mg/l (Rat)

12.2 Persistence and

degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
No further relevant information available.
No further relevant information available.
No further relevant information available.

· Ecotoxical 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

12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

• **12.6 Other adverse effects** No further relevant information available.

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		
HP3	Flammable	
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity	
HP14	Ecotoxic	

· Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number · ADR/RID/ADN, IMDG, IATA	UN1263
· 14.2 UN proper shipping name · ADR/RID/ADN · IMDG, IATA	1263 PAINT PAINT
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN · Class · Label	3 (F1) Flammable liquids.
· IMDG, IATA · Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Flammable liquids. 30
	(County) on many



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	(Contd. of page 7)
· EMS Number:	F-E,S-E
· Stowage Category	Α
· 14.7 Transport in bulk according to Annex II of Marp	ol
and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III

SECTION 15: Regulatory information

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

· Directive 2012/18/FU

· Named dangerous substances -

None of the ingredients is listed. ANNEX I Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the

application of lower-tier

requirements 5,000 t

Qualifying quantity (tonnes) for the

application of upper-tier

50.000 t requirements

REGULATION (EC) No 1907/2006

Conditions of restriction: 3 ANNEX XVII

· 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.

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 %
NK	49.8

· 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.

(Contd. on page 9)



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Trade name: Double Coat Karaat basis

(Contd. of page 8)

· Relevant phrases H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· 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.

Flammable liquids	On basis of test data
Skin sensitisation	The classification of the mixture is generally based on the
Specific target organ toxicity (single exposure)	calculation method using substance data according to
Hazardous to the aquatic environment - long-term (chronic)	Regulation (EC) No 1272/2008.
aquatic hazard	

 Department issuing SDS: Research and Development

Saïda El Asjadi, tel: +31 182 372177, e-mail: safety@de-ijssel-coatings.nl · Contact:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement · Abbreviations and acronyms:

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)

VOC: Volatile Organic Compounds (USA, EU) 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

Flam. Liq. 3: Flammable liquids – Category 3 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 Literature data and/or investigation reports are available through the manufacturer.

· Sources:

· * Data compared to the previous version altered.

- EU --



Printing date 08.04.2022 Version number 36 Revision: 08.04.2022

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

· 1.1 Product identifier

· Trade name: Double Coat Karaat verharder

· Article number: 456

Registration number
 UFI:
 01-2119488934-20
 9GM4-A0SK-300K-1VN5

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

· Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

SU19 Building and construction work

Product category
 Process category
 PC9a Coatings and paints, thinners, paint removers
 PROC19 Manual activities involving hand contact

PROC7 Industrial spraying

PROC10 Roller application or brushing PROC11 Non industrial spraying

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 AC11 Wood articles

· Application of the substance / the

mixture

See our technical datasheet for application details of this product.

Isocyanate hardener for polyurethanes

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht

Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl

· Further information obtainable

from:

1.4 Emergency telephone

Research and Development.

number: De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl

Office hours: working days from 08:00 to 17:00 hrs.

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. STOT SE 3 H335 May cause respiratory irritation.

· 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
· Signal word

Warning

· Hazard-determining components of

labelling: Hexamethyleen-1,6-diisocyanaat homopolymeer

hexamethylene-di-isocyanate

· Hazard statements H332 Harmful if inhaled.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions. P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

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P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Additional information: As from 24 August 2023 adequate training is required before industrial or professional

use

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

Mixture of substances listed below with nonhazardous additions. · Description:

– 100%
- 0.5%

· 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.

No further relevant information available.

· 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. · 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

delaved

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: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from

the substance or mixture No further relevant information available.

· 5.3 Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures Not required.

6.2 Environmental precautions: 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,

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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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

· 6.4 Reference to other sections

· 7.1 Precautions for safe

handling Ensure good ventilation/exhaustion at the workplace.

Not required.

Prevent formation of aerosols.

· Information about fire - and

explosion protection: No special measures required.

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:

· Further information about storage

conditions:

Keep container tightly sealed.

· Recommended storage

temperature:

5 - 30 \square

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that

require monitoring at the

workplace:

The product does not contain any relevant quantities of materials with critical values that

have to be monitored at the workplace

have to be monitored at the workplace.				
· DNEL (Derived No Effect Level) for workers				
28182-81-2 Hexamethyleen-1,6-diisocyanaat	28182-81-2 Hexamethyleen-1,6-diisocyanaat homopolymeer			
Inhalative Acute - local effects, worker	1 mg/m³ (Worker)			
Long-term - local effects, worker	0.5 mg/m³ (Worker)			
822-06-0 hexamethylene-di-isocyanate				
Inhalative Acute - systemic effects, worker	0.07 mg/m³ (Worker)			
Long-term - systemic effects, worker	0.035 mg/m³ (Worker)			
Long-term - local effects, worker	0.035 mg/m³ (Worker)			
PNEC (Predicted No Effect Concentration) value	es es			
28182-81-2 Hexamethyleen-1,6-diisocyanaat	homopolymeer			
Aquatic compartment - freshwater	0.199 mg/l (Freshwater)			
Aquatic compartment - marine water	0.0199 mg/l (Marine water)			
Aquatic compartment - sediment in freshwater	44,551 mg/kg sed dw (Sediment freshwater)			
Aquatic compartment - sediment in marine water	er 4,455 mg/kg sed dw (Sediment marine water)			
Terrestrial compartment - soil	8,884 mg/kg dw (Soil)			
Sewage treatment plant	100 mg/l (stp)			
822-06-0 hexamethylene-di-isocyanate	•			
Aquatic compartment - freshwater	0.0774 mg/l (Freshwater)			
Aquatic compartment - marine water	0.00774 mg/l (Marine water)			
Aquatic compartment - sediment in freshwater	0.01334 mg/kg sed dw (Sediment freshwater)			
Aquatic compartment - sediment in marine water	0.001334 mg/kg sed dw (Sediment marine water)			
Terrestrial compartment - soil	0.0026 mg/kg dw (Soil)			
Sewage treatment plant	8.42 mg/l (stp)			
· Additional information: The lists va	lid during the making were used as basis			

· Additional information: The lists valid during the making were used as basis.

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Keep away from foodstuffs, beverages and feed.

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· 8.2 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.

· Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of

intensive or longer exposure use self-contained respiratory protective device.

· 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 Nitrile rubber, NBR

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.

Recommended thickness of the material: $\geq 0.3 \text{ mm}$

The exact break trough time has to be found out by the manufacturer of the protective · Penetration time of glove material

gloves and has to be observed.

For the mixture of chemicals mentioned below the penetration time has to be at least

480 minutes (Permeation according to EN 16523-1:2015: Level 6).

· For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

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

Nitrile rubber, NBR

Not suitable are gloves made of the following materials: Leather gloves

Strong material gloves

· Eye protection: Goggles recommended during refilling

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical a • General Information	nd chemical properties
· Appearance:	
Form:	Fluid
Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value at 20 °C:	7
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: Undetermined.
· Flash point:	149 °C (Pensky Martens, ASTM D93)
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	< 0.1 hPa
· Density at 20 °C:	1.12 g/cm³ (DIN 51757, ASTM D 1298)
· Relative density	Not determined.

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	(Conta. or page 4)
· Vapour 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 at 20 °C:	2,000 mPas (Brookfield, ASTM D1544)
Kinematic:	Not determined.
· Solvent content:	
VOC (2004/42/EC):	0.00 %
Solids content:	99.8 %
· 9.2 Other information	No further relevant information available.

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
 10.5 Incompatible materials:
 No further relevant information available.
 No further relevant information available.

· 10.6 Hazardous decomposition

products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Harmful if inhaled.

· LD/LC50 values relevant for classification:

· Compor	nents	Туре	Value	Species		
822-06-	0 hexa	methylene-di-isocyana	ate			
Oral	LD50	738 mg/kg (Rat)				
Dermal	LD50	593 mg/kg (Rat)				

· Primary irritant effect:

Skin corrosion/irritation
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

· Respiratory or skin sensitisation May cause an allergic skin reaction.

· Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

· STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure
Aspiration hazard
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

· Type of test Effective concentration Method	Assessment
ATE (Acute Toxicity Estimates)	
Inhalative LC50/4 h 10.6 mg/l	

· 12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

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· 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.

• 12.5 Results of PBT and vPvB assessment
 • PBT: Not applicable.
 • vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

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.

	5 ,			
· European	uropean waste catalogue			
08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS				
08 01 00	wastes from MFSU and removal of paint and varnish			
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances			
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity			
HP13	Sensitising			

· Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

UN1263
1263 PAINT PAINT
3 (F1) Flammable liquids. 3
3 Flammable liquids. 3
III
No
Warning: Flammable liquids. 30 F-E, <u>S-E</u> A
ol Not applicable.
5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E

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·IMDG

· Limited quantities (LQ)

· Excepted quantities (EQ)

5L Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN 1263 PAINT, 3, III UN "Model Regulation":

SECTION 15: Regulatory information

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

· 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, 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.

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 %
1	0.2

· 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.

H302 Harmful if swallowed. Relevant phrases

H311 Toxic in contact with skin. 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.

· Classification according to

Acute toxicity - inhalation

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.

Skin sensitisation

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

Specific target organ toxicity (single exposure)

· Department issuing SDS: Research and Development

· Contact: Saïda El Asjadi, tel: +31 182 372177, e-mail: safety@de-ijssel-coatings.nl

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer · Abbreviations and acronyms:

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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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)

VOC: Volatile Organic Compounds (USA, EU) 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. 3: Acute toxicity – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 4: Acute toxicity – Category 4
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
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Literature data and/or investigation reports are available through the manufacturer.

· Sources:

· * Data compared to the previous version altered.