

2K PU BLACK

Creation date	06th March 2024	Version	1.0
Revision date			

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

- 1.1. Product identifier**
Substance / mixture
Number
UFI
- 2K PU BLACK
mixture
1 35296 - part A
EM6Q-WY7M-371V-483W
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Glue. For professional use only.
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name
Address

Identification number (CRN)
VAT Reg No
Phone
E-mail
Web address
- RETECH, s.r.o.
Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
25018205
CZ25018205
+420327596428
info@retech.cz
www.retech.com
- Competent person responsible for the safety data sheet**
Name
E-mail
- RETECH, s.r.o.
info@retech.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Sens. 1, H317
Acute Tox. 4, H332
STOT SE 3, H335

Most serious adverse effects on human health and the environment

May cause respiratory irritation. Harmful if inhaled. May cause an allergic skin reaction.

- 2.2. Label elements**
Hazard pictogram

**Signal word**

Warning

Hazardous substances

hexamethylene diisocyanate, oligomers
hexamethylene-di-isocyanate

Hazard statements

H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary statements

P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.

2K PU BLACK

Creation date	06th March 2024	Version	1.0
Revision date			

P280	Wear protective gloves.
P312	Call a POISON CENTER/doctor if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container to according to applicable regulations.

Supplemental information

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Mixture.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 28182-81-2 EC: 500-060-2 Registration number: 01-2119485796-17-0000	hexamethylene diisocyanate, oligomers	70-<80	Skin Sens. 1, H317 Acute Tox. 4, H332 STOT SE 3, H335 Specific concentration limit: ATE Oral = 2500 mg/kg bw ATE Dermal = 2000 mg/kg bw	
Index: 615-011-00-1 CAS: 822-06-0 EC: 212-485-8 Registration number: 01-2119457571-37	hexamethylene-di-isocyanate	<0,1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 2, H330 Resp. Sens. 1, H334 STOT SE 3, H335 Specific concentration limit: Resp. Sens. 1, H334: C ≥ 0.5 % Skin Sens. 1, H317: C ≥ 0.5 % ATE Inhalation (vapor) = 0,124 mg/l ATE Oral = 960 mg/kg bw ATE Oral = 746 mg/kg bw ATE Dermal = 7000 mg/kg bw	1, 2

Notes

- Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.
- The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures

Transfer the affected person to the fresh air. Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. And wash it before reuse. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

2K PU BLACK

Creation date	06th March 2024	Version	1.0
Revision date			

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Never give anything by mouth to an unconscious person. Provide medical treatment if the person has any health problems.

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

Harmful if inhaled. May cause respiratory irritation. There may be shortness of breath. Cough, headache. Chest tightness. Risk of pulmonary edema.

If on skin

May cause an allergic skin reaction.

If in eyes

not available

If swallowed

Nausea. Vomiting. Diarrhoea.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Accommodate extinguishing components to the location of fire. Foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment for work. Provide sufficient ventilation. Keep unprotected persons away. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains. Stop leak if safe to do so. Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

2K PU BLACK

Creation date	06th March 2024	Version	1.0
Revision date			

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Prevent formation of aerosols. Ensure good ventilation/exhaustion at the workplace. Do not inhale vapours. Do not inhale dust. People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this product. Empty containers retain product residue and can be hazardous. Obtain special instructions before use. Prevent contact with skin and eyes. Do not eat, drink or smoke when using this product. Use personal protective equipment as per Section 8. Wash hands and exposed parts of the body thoroughly after handling. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Follow the product label instructions.

7.3. Specific end use(s)

See the technical data sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used.

Eye/face protection

It is not needed. In case of splash use safety glasses. EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. Material of gloves: Butyl rubber. Recommended thickness of the material: > 0.5 mm. Penetration time of glove material: ≥480 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Replace before any evidence of deterioration.

Other protection: protective workwear and footwear. EN13688. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. EN 136. EN 140. EN 14387.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid
Colour	white
Odour	without fragrance
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>260 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	data not available
Viscosity	13000 cps at 23 °C
Solubility in water	insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available

2K PU BLACK

Creation date	06th March 2024	Version	1.0
Revision date			

Density and/or relative density	
Density	1.3 g/cm ³ at 25 °C
Relative density	1.3 (23 °C)
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid: viscous

9.2. Other information

not available

SECTION 10: Stability and reactivity
10.1. Reactivity

The product is stable and no degradation occurs under normal use.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

Protect against flames, sparks, overheating.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Alcohols. Amines. Water.

10.6. Hazardous decomposition products

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

Acute toxicity

Harmful if inhaled.

2K PU BLACK							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation (vapor)			14.05 mg/l	4 hours			Calculation of value

hexamethylene diisocyanate, oligomers							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	OECD 423	>2500 mg/kg		Rat		
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rabbit	F/M	
Oral	ATE		2500 mg/kg bw				
Dermal	ATE		2000 mg/kg bw				

hexamethylene-di-isocyanate							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀		960 mg/kg		Rat		
Oral	LD ₅₀		746 mg/kg		Rat	M	
Inhalation (vapor)	LC ₅₀	OECD 403	0.124 mg/l	4 hours	Rat		
Dermal	LD ₅₀	OECD 402	>7000 mg/kg		Rabbit		
Inhalation (vapor)	ATE		0.124 mg/l				
Oral	ATE		960 mg/kg bw				

2K PU BLACK

Creation date

06th March 2024

Revision date

Version

1.0

hexamethylene-di-isocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	ATE		746 mg/kg bw				
Dermal	ATE		7000 mg/kg bw				

Skin corrosion/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met. Possible irritation.

hexamethylene diisocyanate, oligomers

Route of exposure	Result	Method	Exposure time	Species
Skin	Slightly irritating	OECD 404		Rabbit

hexamethylene-di-isocyanate

Route of exposure	Result	Method	Exposure time	Species
Skin	Corrosive	OECD 404		Rabbit

Serious eye damage/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

hexamethylene diisocyanate, oligomers

Route of exposure	Result	Method	Exposure time	Species
Eye	Slightly irritating	OECD 405		Rabbit

hexamethylene-di-isocyanate

Route of exposure	Result	Method	Exposure time	Species
Eye	Corrosive	OECD 405		Rabbit

Respiratory or skin sensitisation

May cause an allergic skin reaction.

hexamethylene diisocyanate, oligomers

Route of exposure	Result	Method	Exposure time	Species	Sex
Skin	Sensitizing	OECD 406		Guinea-pig	

Germ cell mutagenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

hexamethylene diisocyanate, oligomers

Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					In vitro
Negative	OECD 473			Chinese hamster		In vitro
Negative	OECD 476			Chinese hamster		In vitro
Negative	OECD 475			Mouse	F/M	In vivo

2K PU BLACK

Creation date 06th March 2024
Revision date Version 1.0

hexamethylene-di-isocyanate						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative						in vitro
Negative	OECD 474		Blood	Mouse		in vivo

Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

hexamethylene diisocyanate, oligomers					
Route of exposure	Parameter	Value	Result	Species	Sex
Inhalation			Irritating		

Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Acute toxicity

hexamethylene diisocyanate, oligomers						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₀	OECD 203	>100 mg/l	96 hours	Fish (Danio rerio)		Static system
EC ₀	OECD 201	>100 mg/l	48 hours	Daphnia (Daphnia magna)		
EC ₅₀	OECD 201	>1000 mg/l	72 hours	Algae (Desmodesmus subspicatus)		

hexamethylene-di-isocyanate						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₀		>82.8 mg/l	96 hours	Fish (Danio rerio)		
EC ₀	OECD 202	>89.1 mg/l	48 hours	Daphnia (Daphnia magna)		

2K PU BLACK

Creation date 06th March 2024
Revision date Version 1.0

hexamethylene-di-isocyanate						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EC ₅₀		>77.4 mg/l	72 hours	Algae (Desmodesmus subspicatus)		
EC ₅₀			3 hours	Bacteria	Activated sludge	

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

hexamethylene diisocyanate, oligomers					
Parameter	Method	Value	Exposure time	Environment	Result
		0 %	28 days		Hardly biodegradable

hexamethylene-di-isocyanate					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	42 %	28 days		Hardly biodegradable

12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

12.4. Mobility in soil

No data are available for either the mixture or the components.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

2K PU BLACK

Creation date	06th March 2024	Version	1.0
Revision date			

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

hexamethylene-di-isocyanate

Restriction	Conditions of restriction
74	<p>1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless:</p> <p>(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or</p> <p>(b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture (s).</p> <p>2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:</p> <p>(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or</p> <p>(b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".</p> <p>3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.</p> <p>4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum:</p> <p>(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).</p> <p>(b) the training elements in points (a) and (b) of paragraph 5 for the following uses:</p> <ul style="list-style-type: none"> — handling open mixtures at ambient temperature (including foam tunnels); — spraying in a ventilated booth; — application by roller; — application by brush; — application by dipping and pouring; — mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore; — cleaning and waste; — any other uses with similar exposure through the dermal and/or inhalation route;

2K PU BLACK

Creation date

06th March 2024

Revision date

Version

1.0

hexamethylene-di-isocyanate

Restriction	Conditions of restriction
	<p>(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:</p> <ul style="list-style-type: none"> – handling incompletely cured articles (e.g. freshly cured, still warm); – foundry applications; – maintenance and repair that needs access to equipment; – open handling of warm or hot formulations (> 45 °C); – spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers); – and any other uses with similar exposure through the dermal and/or inhalation route. <p>5. Training elements:</p> <p>(a) general training, including on-line training, on:</p> <ul style="list-style-type: none"> – chemistry of diisocyanates; – toxicity hazards (including acute toxicity); – exposure to diisocyanates; – occupational exposure limit values; – how sensitisation can develop; – odour as indication of hazard; – importance of volatility for risk; – viscosity, temperature, and molecular weight of diisocyanates; – personal hygiene; – personal protective equipment needed, including practical instructions for its correct use and its limitations; – risk of dermal contact and inhalation exposure; – risk in relation to application process used; – skin and inhalation protection scheme; – ventilation; – cleaning, leakages, maintenance; – discarding empty packaging; – protection of bystanders; – identification of critical handling stages; – specific national code systems (if applicable); – behaviour-based safety; – certification or documented proof that training has been successfully completed <p>(b) intermediate level training, including on-line training, on:</p> <ul style="list-style-type: none"> – additional behaviour-based aspects; – maintenance; – management of change; – evaluation of existing safety instructions; – risk in relation to application process used; – certification or documented proof that training has been successfully completed <p>(c) advanced training, including on-line training, on:</p> <ul style="list-style-type: none"> – any additional certification needed for the specific uses covered; – spraying outside a spraying booth; – open handling of hot or warm formulations (> 45 °C); – certification or documented proof that training has been successfully completed <p>6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.</p> <p>7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.</p> <p>8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.</p> <p>9. Member States shall include in their reports pursuant to Article 117(1) the following information:</p> <p>(a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law;</p> <p>(b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates;</p> <p>(c) national exposure limits for diisocyanates, if there are any;</p> <p>(d) information about enforcement activities related to this restriction.</p>

2K PU BLACK

Creation date	06th March 2024	Version	1.0
Revision date			

hexamethylene-di-isocyanate

Restriction	Conditions of restriction
	10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information
A list of standard risk phrases used in the safety data sheet

H302	Harmful if swallowed.
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.

Guidelines for safe handling used in the safety data sheet

P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves.
P312	Call a POISON CENTER/doctor if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container to according to applicable regulations.

A list of additional standard phrases used in the safety data sheet

EUH204	Contains isocyanates. May produce an allergic reaction.
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Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₀	Concentration of a substance when it is affected 0% of the population
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₀	Lethal concentration of a substance in which it can be expected death of 0% of the population

2K PU BLACK

Creation date	06th March 2024	Version	1.0
Revision date			

LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.