

breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

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SEC	TION 1: Id	entification of the	e substance/mixtu	ire and of the compar	ny/undertakin	g
1.1.	Product id	lentifier				
		(manufacturer/supp e/designation	lier):	2 05752 B0000 epple 5752 Adhesive Component B UFI: N030-V0X0-100Q-	-YYGX	
1.2.	Relevant i	dentified uses of t	he substance or mix	cture and uses advised	against	
	Adhesive f	•	ariety of substrates.			
1.3.	Details of	the supplier of the	safety data sheet			
	E. Epple &	nanufacturer/impo Co. GmbH	rter/downstream us	er/distributor)		
	Hertzstr. 8 71083 Herr	renberg		Telephone: +49 7032 / Telefax: +49 7032 / 977 www.epple-chemie.de		
	laboratory	nt responsible for i	information:			
	•	npetent person)		labor@epple-chemie.de	e	
1.4.	-	y telephone number n center against pois		+49 (0) 228 / 19 240 (A	dvice in Germa	n)
SEC	TION 2: Ha	azards identificat	ion			
2.1.	Classificat	tion of the substan	ice or mixture			*
	Classificat	tion according to F	Regulation (EC) No 1	1272/2008 [CLP]		
	The mixtur	e is classified as ha	zardous according to	regulation (EC) No 1272	/2008 [CLP].	
	Flam. Liq. 2 Eye Irrit. 2 Resp. Sens	/ H319	Flammable liquids Serious eye damag Respiratory or skin	-	Causes seriou	ble liquid and vapour. s eye irritation. ergy or asthma symptoms or

Skin Sens. 1 / H317 STOT SE 3 / H336

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Respiratory or skin sensitisation

STOT-single exposure

Labelling according to Regulation (EC) No. 1272/2008 [CLP]





Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
Precautionar	y statements
D210	Keen away from heat hot surfaces snarks onen flames and other ignition sources. No s

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition source	es. No smoking.
P261 Avoid breathing vapours.	
P280 Wear protective gloves.	
P284 In case of inadequate ventilation wear respiratory protection.	
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.	
P501 Dispose of contents / container to a certified waste management company.	

Hazard components for labelling

m-tolylidene diisocyanate diisocyanate toluene (polymer)



int d rsio		2 05752 B0000 27.04.2023 8.0	epple 5752 Revision date 27.04.2023 Issue date 27.04.2023	EN Page 2 / 12	
		Ethyl a	acetate		
	Suppleme	ental hazard inform	mation		
	EUH066		ated exposure may cause skin dryness o		
	EUH204	Contai	ins isocyanates. May produce an allergi	c reaction.	
			o REACH annex XVII, no.: 74		
	Restriction		quate training is required before industr	ial or profossional use	
~		•	quate training is required before industr	iai or professional use.	
.3.	Other haz				
	No informa	ation available.			
EC	TION 3: Co	omposition/info	rmation on ingredients		
.2.	Mixtures				*
	Descriptio	on aroma	atic polyisocyanates		
	Descriptio		atic polyisocyanates		
	Hazardous	s ingredients			
	Hazardous Classifica	s ingredients tion according to	Regulation (EC) No 1272/2008 [CLP]		
	Hazardous Classifica EC No.	s ingredients tion according to REAC	Regulation (EC) No 1272/2008 [CLP] H No.		weight-%
	Hazardous Classifica	s ingredients tion according to REAC Desig	Regulation (EC) No 1272/2008 [CLP]		weight-%
	Hazardous Classifica EC No. CAS No.	s ingredients tion according to REAC Desig classi	Regulation (EC) No 1272/2008 [CLP] H No. Ination		weight-%
	Hazardous Classifica EC No. CAS No. Index No.	s ingredients tion according to REAC Desig classi	Regulation (EC) No 1272/2008 [CLP] H No. Ination		weight-% 49,9 - 74,9
	Hazardous Classifica EC No. CAS No. Index No. 500-120-8	s ingredients tion according to REAC Desig classi 6 diisocy	Regulation (EC) No 1272/2008 [CLP] H No. nation ification: // Remark		-
	Hazardous Classifica EC No. CAS No. Index No. 500-120-8 53317-61-0 205-500-4	s ingredients tion according to REAC Desig classi 6 diisocy Eye Irr 01-21	Regulation (EC) No 1272/2008 [CLP] H No. nation ification: // Remark yanate toluene (polymer) rit. 2 H319 / Skin Sens. 1 H317 19475103-46		49,9 - 74,9
	Hazardous Classifica EC No. CAS No. Index No. 500-120-8 53317-61-0 205-500-4 141-78-6	s ingredients tion according to REAC Desig classi 6 diisocy Eye Irr 01-21 ⁷ Ethyl a	Regulation (EC) No 1272/2008 [CLP] H No. nation ification: // Remark yanate toluene (polymer) rit. 2 H319 / Skin Sens. 1 H317 19475103-46 acetate		-
	Hazardous Classifica EC No. CAS No. Index No. 500-120-8 53317-61-0 205-500-4 141-78-6 607-022-00	s ingredients tion according to REAC Desig classi 6 diisocy Eye Irr 01-21 ² Ethyl a 0-5 Eye Irr	Regulation (EC) No 1272/2008 [CLP] H No. Ination ification: // Remark yanate toluene (polymer) rit. 2 H319 / Skin Sens. 1 H317 19475103-46 acetate rit. 2 H319 / STOT SE 3 H336 / Flam		49,9 - 74,9
	Hazardous Classifica EC No. CAS No. Index No. 500-120-8 53317-61-0 205-500-4 141-78-6 607-022-00 247-722-4	s ingredients tion according to REAC Desig classi 6 diisocy Eye Irr 01-21 ² Ethyl a 0-5 Eye Irr 01-21 ²	Regulation (EC) No 1272/2008 [CLP] H No. Ination ification: // Remark yanate toluene (polymer) rit. 2 H319 / Skin Sens. 1 H317 19475103-46 acetate rit. 2 H319 / STOT SE 3 H336 / Flam 19454791-34		49,9 - 74,9 19,9 - 24,9
	Hazardous Classifica EC No. CAS No. Index No. 500-120-8 53317-61-0 205-500-4 141-78-6 607-022-00 247-722-4 26471-62-5	s ingredients tion according to REAC Desig classi 6 diisocy Eye Irr 01-21 ² Ethyl a 0-5 Eye Irr 01-21 ² 5 m-tolyl	Regulation (EC) No 1272/2008 [CLP] H No. Ination ification: // Remark yanate toluene (polymer) rit. 2 H319 / Skin Sens. 1 H317 19475103-46 acetate rit. 2 H319 / STOT SE 3 H336 / Flam 19454791-34 didene diisocyanate	. Liq. 2 H225 / EUH066	49,9 - 74,9 19,9 - 24,9 0,1 - 0,9
	Hazardous Classifica EC No. CAS No. Index No. 500-120-8 53317-61-0 205-500-4 141-78-6 607-022-00 247-722-4	s ingredients tion according to REAC Desig classi 6 diisocy Eye Irr 01-21 ² Ethyl a 0-5 Eye Irr 01-21 ² 5 m-tolyl 0-4 Carc. 2	Regulation (EC) No 1272/2008 [CLP] H No. Ination ification: // Remark yanate toluene (polymer) rit. 2 H319 / Skin Sens. 1 H317 19475103-46 acetate rit. 2 H319 / STOT SE 3 H336 / Flam 19454791-34 lidene diisocyanate 2 H351 / Acute Tox. 2 H330 / Eye Irr	. Liq. 2 H225 / EUH066 it. 2 H319 / STOT SE 3 H3	49,9 - 74,9 19,9 - 24,9 0,1 - 0,9 335 /
	Hazardous Classifica EC No. CAS No. Index No. 500-120-8 53317-61-0 205-500-4 141-78-6 607-022-00 247-722-4 26471-62-5	s ingredients tion according to REAC Desig classi 6 diisocy Eye Irr 01-21 ² Ethyl a 0-5 Eye Irr 01-21 ² 5 m-toly 0-4 Carc. 2 Skin Ir	Regulation (EC) No 1272/2008 [CLP] H No. Ination ification: // Remark yanate toluene (polymer) rit. 2 H319 / Skin Sens. 1 H317 19475103-46 acetate rit. 2 H319 / STOT SE 3 H336 / Flam 19454791-34 lidene diisocyanate 2 H351 / Acute Tox. 2 H330 / Eye Irr rrit. 2 H315 / Resp. Sens. 1 H334 /	. Liq. 2 H225 / EUH066 it. 2 H319 / STOT SE 3 H3	49,9 - 74,9 19,9 - 24,9 0,1 - 0,9 335 /
	Hazardous Classifica EC No. CAS No. Index No. 500-120-8 53317-61-0 205-500-4 141-78-6 607-022-00 247-722-4 26471-62-5	s ingredients tion according to REAC Desig classi 6 diisocy Eye Irr 01-21 Ethyl a 0-5 Eye Irr 01-21 5 m-tolyl 0-4 Carc. 2 Skin Ir Chroni	Regulation (EC) No 1272/2008 [CLP] H No. Ination ification: // Remark yanate toluene (polymer) rit. 2 H319 / Skin Sens. 1 H317 19475103-46 acetate rit. 2 H319 / STOT SE 3 H336 / Flam 19454791-34 lidene diisocyanate 2 H351 / Acute Tox. 2 H330 / Eye Irr	. Liq. 2 H225 / EUH066 it. 2 H319 / STOT SE 3 H3 Skin Sens. 1 H317 / Aq	49,9 - 74,9 19,9 - 24,9 0,1 - 0,9 335 /

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. **Most important symptoms and effects, both acute and delayed** In all cases of doubt, or when symptoms persist, seek medical advice.

In all cases of double, of when symptoms persist, seek medical advice.

4.3. **Indication of any immediate medical attention and special treatment needed** First Aid, decontamination, treatment of symptoms.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device.

Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Use appropriate container to avoid environmental contamination. Fouled surfaces must be immediately cleaned with suitable solvents, Useable as such (flammable): water 45 vol.% ethanol or i-propanol 50 vol. % amount is solution (density= 0.88) 5 vol.%

Alternative (non-flammable): sodium carbonate 5 vol.% water 95 vol.%.

Take up spilled residuals with the same agent and leave them for a few days in unclosed containers until there is no further reaction. Then, close the containers and dispose of them in accordance with the regulations for waste removal (refer to section 13).

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

People who spray this preparation should have regular pulmonary function tests.

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Be careful when opening used containers (excess pressure). Precautionary measures should be taken in order to reduce strain from humidity or water: CO2 is formed which may produce excess pressure in closed containers . Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store



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carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers. Keep away from amines, alcohols and water.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

People who spray this preparation should have regular pulmonary function tests.

8.1. Control parameters

Occupational exposure limit values

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6 TWA: 730 mg/m3; 200 ppm STEL: 1460 mg/m3; 400 ppm

Additional information

TWA : Long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

DNEL:

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6 DNEL short-term oral (acute), Workers:

DNEL long-term dermal (systemic), Workers: 63 mg/kg bw/day

DNEL acute inhalative (local), Workers: 1468 mg/m³

DNEL acute inhalative (systemic), Workers: 1468 mg/m³

DNEL long-term inhalative (local), Workers: 734 mg/m³

DNEL long-term inhalative (systemic), Workers: 734 mg/m³

DNEL short-term oral (acute), Consumer:

DNEL long-term dermal (systemic), Consumer: 37 mg/kg bw/day

m-tolylidene diisocyanate

Index No. 615-006-00-4 / EC No. 247-722-4 / CAS No. 26471-62-5

DNEL acute inhalative (local), Workers: 0,14 mg/m³

DNEL acute inhalative (systemic), Workers: 0,14 mg/m³

DNEL long-term inhalative (local), Workers: 0,035 mg/m³

DNEL long-term inhalative (systemic), Workers: 0,035 mg/m³

PNEC:

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

PNEC aquatic, freshwater: 0,26 mg/L

PNEC aquatic, marine water: 0,026 mg/L

PNEC aquatic, intermittent release: 1,65 mg/L

PNEC sediment, freshwater: 1,25 mg/kg

PNEC sediment, marine water: 0,125 mg/kg

PNEC, soil: 0,24 mg/kg

PNEC sewage treatment plant (STP): 650 mg/L

m-tolylidene diisocyanate

Index No. 615-006-00-4 / EC No. 247-722-4 / CAS No. 26471-62-5

PNEC aquatic, freshwater: 0,013 mg/L

PNEC aquatic, marine water: 0,0012 mg/L

PNEC, soil: > 1 mg/kg



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PNEC sewage treatment plant (STP): > 1 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If the workplace limit values (AGW) are exceeded, a suitable breathing apparatus must be worn. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Use filter / combination filter according to EN 14387.

Suitable respiratory protection apparatus: ABEK-P2

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear eye glasses with side protection according to EN 166.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Appearance: Colour:	Liquid Liquid translucent
Odour:	like Solvents
Odour threshold:	not applicable
Melting point/freezing point:	-83 °C Source: Ethyl acetate
Initial boiling point and boiling range:	77 °C Source: Ethyl acetate
Flammability:	Highly flammable liquid and vapour.
Lower and upper explosion limit:	
Lower explosion limit:	2 Vol-% Source: Ethyl acetate
Upper explosion limit:	12,8 Vol-% Source: Ethyl acetate
Flash point:	1 °C
Auto-ignition temperature:	470 °C Source: Ethyl acetate
Decomposition temperature:	not applicable
pH at 20 °C:	not applicable
Cinematic viscosity (40°C):	> 700 mm²/s
Viscosity at 20 °C: Solubility(ies):	1 - 3 Pa*s



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	Partition c	ubility at 20 °C: oefficient: n-octano essure at 20 °C:	ol/water:	insoluble see section 12 98,4 mbar Source: Ethyl ace	state	
	Density at Relative va	d/or relative densit 20 °C: apour density: aracteristics:	y:	1,17 g/cm ³ not applicable not applicable		
9.2.	Other info			< 3 weight-% (AD	R/RID)	
SEC	TION 10: S	tability and react	ivity			
	Reactivity	tion available.				
10.2.	Chemical s Stable whe section 7.	•	nmended regulati	ons for storage and	d handling. Further information on correct storage: ref	er to
10.3.	Keep away		ic and alkaline m		oxidizers. Keep away from amines, alcohols and ward in closed containers due to build-up of pressure.	ater.
10.4.	section 7. I	n applying the recor	sition byproducts		d handling. Further information on correct storage: references references to high temperatures.	er to
10.5.		ble materials				
10.6.	Hazardous	decomposition pr decomposition bypr ogen oxides.		with exposure to hi	igh temperatures, e.g.: carbon dioxide, carbon mono:	xide,
SEC	TION 11: T	oxicological info	rmation			
11.1.	Informatio	n on hazard classe	s as defined in F	Regulation (EC) No	» 1272/2008 *	
	Acute toxi	city				
	dermal, L	0, Rat: > 2000 mg/kg D50, Rabbit: > 1800	0 mg/kg	(6 h); Evaluation Th	ne substance or mixture has no acute respiratory toxic	ity
	oral, LD50 Method: dermal, L Method: inhalative Method: inhalative	e diisocyanate), Rat: 5110 mg/kg OECD 401 D50, Rabbit: > 9400 OECD 402 (vapours), LC50, Ra OECD 403 (vapours), LC50:, R OECD 403	at: 0,107 mg/L (4 h)		
	diisocyana oral, LD5	te toluene (polymer)), Rat: > 2000 mg/kg (dust and mist), LC		a/L (4 h)		
		sion/irritation; Seri				
		rious eye irritation.	,	-		
		te bit (4 h): Evaluation bit: Evaluation mild				



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Method: OECD 405

m-tolylidene diisocyanate Skin, Rabbit: Evaluation strongly irritant. eyes, Rabbit: Evaluation strongly irritant.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Ethyl acetate

Skin, Skin sensitization according to Magnusson/Kligman (maximization test), Guinea pig: ; Evaluation not sensitising. Method: OECD 406

m-tolylidene diisocyanate Skin, Guinea pig: ; Evaluation May cause sensitization by skin contact. Skin, Mouse: ; Evaluation positive Method: OECD 429

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Ethyl acetate Reproductive toxicity; Evaluation From the available data there are no indications of reproductive toxicity. genotoxicity; Evaluation No evidence of a mutagenic effect. Method: OECD 471 (Ames test) in-vitro; Salmonella typhimurium; with and without metabolic activation genotoxicity; Evaluation negative Method: OECD 473 in-vitro; Chinese hamster ovary cells; with and without metabolic activation genotoxicity; Evaluation negative Method: OECD 476 in-vitro; mouse lymphoma cells; with and without metabolic activation genotoxicity; Evaluation negative Method: OECD 474 in-vivo; Mouse m-tolylidene diisocyanate genotoxicity; Evaluation negative Method: OECD 471 (Ames test) in-vitro; Salmonella typhimurium; without metabolic activation genotoxicity; Evaluation positive Method: OECD 471 (Ames test) in-vitro; Salmonella typhimurium; with metabolic activation

Method: OECD 474 in-vivo; Mouse; inhalative (vapours)

STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

genotoxicity; Evaluation negative

Aspiration hazard

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

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage. Because of the isocyanate components' properties of this and with consideration of similar preparations the following applies: This mixture may cause acute irritation and/or sensitization of airways which lead to tightness in thorax, short-breath and asthmatic complaints. After sensitization even concentrations below the exposure limit values may cause asthma. Repeated inhaling can lead to permanent illness of the respiratory tract. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin.

Overall assessment on CMR properties



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The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.

12.1. Toxicity

Ethvl acetate Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/L (96 h) Flow test Daphnia toxicity, EC50, Daphnia cucullata: 165 mg/L (48 h) aquatic, freshwater Algae toxicity, ErC50, Desmodesmus subspicatus: > 100 mg/L (72 h) Method: OECD 201 Bacteria toxicity, NOEC:, Pseudomonas putida: 650 mg/L (16 h) Method: DIN 38412 Fish toxicity, EC50: 220 mg/L (96 h) Daphnia toxicity, EC50, Artemia salina: 346 mg/L (24 h) aquatic, marine water m-tolylidene diisocyanate Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 133 mg/L (96 h) Method: OECD 203 Daphnia toxicity, EC50, Daphnia magna (Big water flea): 12,5 mg/L (48 h) Method: OECD 202 Algae toxicity, ErC50, Chlorella vulgaris: 4300 mg/L (96 h) Method: OECD 201 Algae toxicity, ErC50:, Skeletonema costatum: 3230 mg/L (96 h) Method: OECD 201 Bacteria toxicity, EC50, Activated sludge: > 100 mg/L (3 h) Method: OECD 209

Long-term Ecotoxicity

Ethyl acetate Fish toxicity, NOEC, Pimephales promelas (fathead minnow): < 9,65 mg/L (32 d) Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 2,4 mg/L (21 d) Bacteria toxicity, NOEC, Pseudomonas putida: 650 mg/L (16 h) Method: DIN 38412 m-tolylidene diisocyanate Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 1,1 mg/L (21 d) Toxicity to soil macroorganisms, NOEC, Eisenia fetida: > 1000 mg/kg (14 d) Method: OECD 207 Terrestrial toxicity, NOEC, Avena sativa: > 1000 mg/kg (17 d) Method: OECD 208 Emergence of seedlings Terrestrial toxicity, NOEC:, Lactuca sativa: > 1000 mg/L (17 d) Method: OECD 208 Emergence of seedlings Terrestrial toxicity, NOEC, Avena sativa: > 1000 mg/L (14 d) Method: OECD 208 growth rate Terrestrial toxicity, NOEC, Lactuca sativa: > 1000 mg/kg (14 d) Method: OECD 208 growth rate



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12.2. Persistence and degradability

Ethyl acetate

Biodegradation, aerobic: 69 % (20 d); Evaluation Readily biodegradable oxygen consumption: 62 % (5 d) m-tolylidene diisocyanate

Biodegradation: (28 d)Evaluation not potentially degradable Method: OECD 302C

12.3. Bioaccumulative potential

Ethyl acetate

Partition coefficient: n-octanol/water: 0,68

Bioconcentration factor (BCF)

Ethyl acetate

Bioconcentration factor (BCF), Leuciscus idus (golden orfe): 30

12.4. Mobility in soil

Ethyl acetate

soil, Adsorption: Evaluation Due to the low n-octanol/water distribution coefficient, adsorption on the ground is not to be expected.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. Handle contaminated packages in the same way as the substance itself. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Observe in addition any national regulations!

List of propos	sed waste codes/waste designations in accordance with EWC
080501*	Waste isocyanates
*Hazardous wa	aste according to Directive 2008/98/EC (waste framework directive).
Appropriate d	lisposal / Package
	tionDispose of packaging and contaminated filters at a offical hazardous waste incinerator facility.
Recommendat	ion:
Waste codes /	waste designations according to EWC / AVV: 15 01 10*
Non-contamina	ated packages may be recycled.

SECTION 14: Transport information

14.1. UN number or ID number

		UN 1133
14.2.	UN proper shipping name	
	Land transport (ADR/RID):	Adhesives
	Sea transport (IMDG):	ADHESIVES
	Air transport (ICAO-TI / IATA-DGR):	Adhesives
14.3.	Transport hazard class(es)	
		3
14.4.	Packing group	
	Land transport (ADR/RID):	111
	for packages > 450 litres:	II
	Sea transport (IMDG):	111



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	Air transpor	es > 450 litres t (ICAO-TI / IATA-D es > 30 litres:	GR):	 	
14.5.	Environme	ental hazards			
	Land transp	oort (ADR/RID)		not applicab	ble
	Marine poll	utant		not applicat	ble
14.6.	Special pro	ecautions for user			
	case of an	lways in closed, up accident or leakage safe handling: see		tainers. Make	e sure that persons transporting the product know what to do in
	Further inf	ormation			
	Land trans	port (ADR/RID)			
		riction code es > 450 litres:		E D/E special pres	scription 640D
	Sea transp	ort (IMDG)			
	EmS-No.			F-E, S-D	
14.7. Maritime transpo		ansport in bulk ac	cording to IMO i	nstruments	
	No transport as bulk according IBC - Code.				
SEC	FION 15: Regulatory information				
15.1.	Safety, hea	alth and environme	ntal regulations	/legislation s	specific for the substance or mixture
	EU legislat	tion			
	Directive 2	010/75/EU on indu	strial emissions	[Industrial E	missions Directivel

ctive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 290

Use restriction according to REACH annex XVII, no.: 74

Restrictions on use

As from 24 August 2023 adequate training is required before industrial or professional use.

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

For professional use only. Product is not intended for consumer use.

Substance/product listed in the following inventories:

AICS no informtion DSL no information EHS no information **IECSC** no information **KECI** no information MITI no information NZLoC no information **PICCS** no information TCSI no information **TSCA** no information

15.2. Chemical Safety Assessment For the following substances of this mixture a chemical safety assessment has been carried out: EC No. **REACH No.** Designation



*

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	CAS No.					
205-500-4 Ethy 141-78-6		4 E	thyl acetate	lacetate		
	247-722-4	4 m	n-tolylidene diisocyanate		01-2119454791-34	
	26471-62	-5				
Γ	SECTION 16:	Other inform	nation			
	Full text	of classificatio	on in section 3:			
	Eye Irrit. 2	2 / H319	Serious eye damage/eye irritation	Causes serious	s eye irritation.	

Full text of classifie	cation in section 3:				
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.			
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.			
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.			
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.			
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of			
		exposure if it is conclusively proven that no			
		other routes of exposure cause the hazard).			
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.			
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.			
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.			
Resp. Sens. 1 / H33		May cause allergy or asthma symptoms or			
		breathing difficulties if inhaled.			
Aquatic Chronic 3 / I	H412 Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.			
Classification proc	•				
-	xtures and used evaluation method according to reg	ulation (EC) No 1272/2008 [CLP]			
Flam. Liq. 2	Flammable liquids	On basis of test data.			
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.			
Resp. Sens. 1	Respiratory or skin sensitisation	Calculation method.			
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.			
STOT SE 3	STOT-single exposure	Calculation method.			
	C 1	Calculation method.			
Abbreviations and ADR	European Agreement concerning the Internationa	al Carriage of Dengarous Coode by Road			
OEL		al Carriage of Daligerous Goods by Road			
	Occupational Exposure Limit Value				
BLV	Biological Limit Value				
CAS CLP		Chemical Abstracts Service			
	Classification, Labelling and Packaging				
CMR DIN	Carcinogenic, Mutagenic and Reprotoxic				
DNEL	German Institute for Standardization / German industrial standard				
EAKV	Derived No-Effect Level				
EC	European Waste Catalogue Directive				
	Effective Concentration				
EC EN	European Community				
		European Standard			
IATA-DGR IBC Code	International Air Transport Association – Dangero	oment of Ships carrying Dangerous Chemicals in Bulk			
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous				
IMDG Code	Goods by Air International Maritime Code for Dangerous Good	6			
ISO		5			
LC	International Organization for Standardization				
LD	Lethal Concentration				
MARPOL	Lethal Dose Maritime Dellution: The International Convention for the Drevention of Dellution from Shine				
	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships				
OECD PBT	Organisation for Economic Cooperation and Development				
PNEC	persistent, bioaccumulative, toxic Predicted No Effect Concentration				
REACH					
RID	Registration, Evaluation, Authorisation and Restriction of Chemicals				
UN	Regulations concerning the International Carriage of Dangerous Goods by Rail				
VOC	United Nations				
vOC vPvB	Volatile Organic Compounds				
	very persistent and very bioaccumulative				
Abbreviations and					
$n \sigma = n \sigma r \sigma n n \mu \sigma \sigma h \sigma$					

n.a. = not applicable



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n.b. = not determined

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version