

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: TWEHA Blacken

30 ML

Other means of identification:

UFI: 30TA-H0PY-W000-TV8W

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

Relevant uses: Adhesives and sealants. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

TWEHA by

Lepelstraat 1, bus 02.01 3920 Lommel - Belgium Phone: +31 (0)88 300 6 300

info@tweha.com www.tweha.com

1.4 Emergency telephone number: +31 (0)88 600 3 600

SECTION 2: HAZARDS IDENTIFICATION

The product has been classified in accordance with the information contained in the suppliers' SDS and the additional information from tests carried out by said suppliers

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319

Flam. Liq. 2: Flammable liquids, Category 2, H225

Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger







Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT SE 3: H336 - May cause drowsiness or dizziness.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking.

EUH204: Contains isocyanates. May produce an allergic reaction.

EUH208: Contains Dimethylbis[(1-oxoneodecyl)oxy]stannane. May produce an allergic reaction.

Contains Dimethylbis[(1-oxoneodecyl)oxy]stannane.

Substances that contribute to the classification



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TWEHA Blacken 30 ML

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SECTION 2: HAZARDS IDENTIFICATION (continued)

Butanone; 4,4 '-methylenediphenyl diisocyanate

Additional Labelling:

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

UFI: 30TA-H0PY-W000-TV8W

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

	Identification		Chemical name/Classification	Concentration
CAS: EC:	78-93-3 201-159-0 606-002-00-3	D. I.V. 4273/2000	Five Trrit 2: H310: Flam Lig. 2: H325: STOT SE 3: H336: FIJH066 - Danger	54 - <58 %
REACH:	XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	
CAS: EC:	1333-86-4			
REACH:	215-609-9 Non-applicable XXXX	Regulation 1272/2008		15 - <16.5 %
CAS: EC:	101-68-8			
EC: REACH:	202-966-0 615-005-00-9 XXXX	Regulation 1272/2008	♦	0.89 - <1 %
CAS: EC:	4098-71-9			
EC: REACH:	223-861-6 615-008-00-5 XXXX	Regulation 1272/2008		0.4 - <0.5 %
CAS: EC:	68928-76-7			
	273-028-6 Non-applicable lical description: XXXX	Regulation 1272/2008	d of polymers in solvent	0.07 - <0.1 %

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification Chemical name/Classification

Butanone⁽¹⁾ ATP CLP00

	Identification	Specific concentration limit
	Carbon black ⁽²⁾	Not classified
Index:	01 2119304022 32 Regulation 1272/2008	
	4,4'-methylenediphenyl diisocyanate(1)	ATP CLP00

Acuta Tov 4: H337: Carc 7: H351: Fva Irrit 7: H310: Daen Cane 1: H334: Ckin Irrit 7:

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 4: FIRST AID MEASURES (continued)

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into a aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.



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TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

it is recommended to avoid environmental spillage of both the product and its container

6.3 Methods and material for containment and cleaning up:

It is recommended

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements fo protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 20 °C

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):



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TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupa	pational exposure limits		
Butanone	IOELV (8h)	200 ppm	600 mg/m ³	
	IOELV (STEL)	300 ppm	900 mg/m ³	

DNEL (Workers):

		Short e	xposure Long exposure		xposure
Identification		Systemic	Local	Systemic	Local
Butanone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-93-3	Dermal	Non-applicable	Non-applicable	1161 ma/ka	Non-applicable
EC: 201-159-0	Inhalation	Non-applicable	Non-applicable	600 mg/m ³	Non-applicable
4,4´-methylenediphenyl diisocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 101-68-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 202-966-0	Inhalation	Non-applicable	0,1 mg/m ³	Non-applicable	0,05 mg/m ³
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 4098-71-9	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 223-861-6	Inhalation	Non-applicable	0,045 mg/m ³	Non-applicable	0,045 mg/m ³

DNEL (General population):

	Short e	exposure	Long e	Long exposure	
Identification		Systemic	Local	Systemic	Local
Butanone	Oral	Non-applicable	Non-applicable	31 mg/kg	Non-applicable
CAS: 78-93-3	Dermal	Non-applicable	Non-applicable	412 mg/kg	Non-applicable
EC: 201-159-0	Inhalation	Non-applicable	Non-applicable	106 mg/m ³	Non-applicable
4,4'-methylenediphenyl diisocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 101-68-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 202-966-0	Inhalation	Non-applicable	0,05 mg/m ³	Non-applicable	0,025 mg/m ³

PNEC:

PNEC:					
Identification					
Butanone	STP	709 mg/L	Fresh water	55,8 mg/L	
CAS: 78-93-3	Soil	22,5 mg/kg	Marine water	55,8 mg/L	
EC: 201-159-0	Intermittent	55,8 mg/L	Sediment (Fresh water)	284,74 mg/kg	
	Oral	1 g/kg	Sediment (Marine water)	284,7 mg/kg	
4,4'-methylenediphenyl diisocyanate	STP	1 mg/L	Fresh water	1 mg/L	
CAS: 101-68-8	Soil	1 mg/kg	Marine water	0,1 mg/L	
EC: 202-966-0	Intermittent	10 mg/L	Sediment (Fresh water)	Non-applicable	
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable	
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	STP	10,6 mg/L	Fresh water	0,027 mg/L	
CAS: 4098-71-9	Soil	19,8 mg/kg	Marine water	0 mg/L	
EC: 223-861-6	Intermittent	0,27 mg/L	Sediment (Fresh water)	98,51 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	1,46 mg/kg	

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand	NON-disposable chemical protective gloves	CAT III	EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN ISO 21420:2020	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face	Face shield	CATII	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

<u> </u>			
Emergency measure	Standards	Emergency measure	Standards
•	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	*	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 61,91 % weight

V.O.C. density at 20 °C: 588,1 kg/m³ (588,1 g/L)

Average carbon number: 4

Average molecular weight: 72,1 g/mol



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TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Liquid

Appearance: Not available

Colour:

Odour:

Odour threshold:

Volatility:

Boiling point at atmospheric pressure: 80 °C Vapour pressure at 20 °C: 15000 Pa

Vapour pressure at 50 °C: Non-applicable *
Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 961,4 kg/m³ Relative density at 20 °C: 0,74 - 1,14 Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Non-applicable * Kinematic viscosity at 40 °C: Concentration: Non-applicable * pH: Non-applicable * Non-applicable * Vapour density at 20 °C: Non-applicable * Partition coefficient n-octanol/water 20 °C: Non-applicable * Solubility in water at 20 °C: Non-applicable * Solubility properties: Non-applicable * Decomposition temperature: Non-applicable * Melting point/freezing point:

Flammability:

Flash Point: -10 °C

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 400 °C

Lower flammability limit: 0,8 % Volume
Upper flammability limit: 11,5 % Volume

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *
Oxidising properties: Non-applicable *
Corrosive to metals: Non-applicable *
Heat of combustion: Non-applicable *
Aerosols-total percentage (by mass) of flammable Non-applicable *

components:

Other safety characteristics:

*Not relevant due to the nature of the product, not providing information property of its hazards.



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TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Surface tension at 20 °C: Non-applicable * Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunliaht	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Acids Water		Combustible materials	Others	
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis on strong bases	

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect)
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B-

- Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

C-

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

D.



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TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
 - IARC: Carbon black (2B); 4,4
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity.
 - Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
 - Skin: Repeated exposure may cause skin dryness or cracking
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances

Identification	Ad	Acute toxicity	
Butanone	LD50 oral	4000 ma/ka	Rat
CAS: 78-93-3	LD50 dermal	6400 mg/kg	Rabbit
EC: 201-159-0	LC50 inhalation	23.5 mg/L (4 h)	Rat
Carbon black	LD50 oral	>2000 ma/ka	
CAS: 1333-86-4	LD50 dermal	>2000 ma/ka	
EC: 215-609-9	LC50 inhalation	>5 mg/L	
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	LD50 oral	4814 mg/kg	Rat
CAS: 4098-71-9	LD50 dermal	7000 mg/kg	Rat
EC: 223-861-6	LC50 inhalation	3 mg/L (ATEi)	
4,4´-methylenediphenyl diisocyanate	LD50 oral	7616 ma/ka	Rat
CAS: 101-68-8	LD50 dermal	10000 mg/kg	Rabbit
EC: 202-966-0	LC50 inhalation	>5 mg/L	
Dimethylbis[(1-oxoneodecyl)oxy]stannane	LD50 oral	190 mg/kg	Rat
CAS: 68928-76-7	LD50 dermal	>2000 ma/ka	
EC: 273-028-6	LC50 inhalation	>20 mg/L	

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 12: ECOLOGICAL INFORMATION (continued)

Acute toxicity:

Identification		Concentration	Species	Genus
Butanone	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
CAS: 78-93-3				
EC: 201-159-0				
	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Algae
Carbon black	LC50	1000 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 1333-86-4				
EC: 215-609-9				
	EC50	5600 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
4,4´-methylenediphenyl diisocyanate	LC50	1000 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 101-68-8				
EC: 202-966-0				
	EC50	Non-applicable		
	EC50	Non-applicable		
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	LC50	72 mg/L (96 h)	Danio rerio	Fish
CAS: 4098-71-9				
EC: 223-861-6				
	EC50	5,5 mg/L (48 h)	Chaetogammarus marinus	Crustacean
	EC50	119 mg/L (72 h)	Desmodesmus subspicatus	Algae
Dimethylbis[(1-oxoneodecyl)oxy]stannane	LC50	Non-applicable		
CAS: 68928-76-7				
EC: 273-028-6		egradability	Biodegradability	
	EC50	39 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	7,2 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
4,4´-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0	NOEC	Non-applicable		
	NOEC	10 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification				
Butanone	BOD5	2,03 g O2/g	Concentration Bioaccumulatio	nNon-annalicable
CAS: 78-93-3				
EC: 201-159-0				
	COD	2,31 g O2/g	Period	20 days
	BOD5/COD	0,88	% Biodegradable	89 %
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	BOD5	Non-applicable	Concentration	6.9 mg/L
CAS: 4098-71-9				
EC: 223-861-6				
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	8 %
Dimethylbis[(1-oxoneodecyl)oxy]stannane	BOD5	Non-applicable	Concentration	19 mg/L
CAS: 68928-76-7	A h- a	/ d	Vale	:::
EC: 273-028-6	Absorp	tion/desorption	Volat	ility
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %

12.3 Rioaccumulative notentials



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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility		
	Koc	Koc		Non-applicable	
	Conclusion			Non-applicable	
	Surface tension		Moist soil	Non-applicable	
	Koc		Henry	9,41E-1 Pa·m³/mol	
	Conclusion		Dry soil	Yes	
	Surface tension		Moist soil	Yes	

4,4 '-methylenediphenyl diisocyanate

CAS: 101-68-8

EC: 202-966-0

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate Koc

EC: 223-861-6

CAS: 4098-71-9

Conclusion Surface tension

Surface tension

Koc

Conclusion

36450 Non-applicable

°C)

Non-applicable

Non-applicable

2,068E-2 N/m (283,45

12.5 Results of PBT and vPvB assessment:

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP4 Irritant — skin irritation and eye damage Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:



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TWEHA Blacken **30 ML**

Date of compilation: 07/11/2023 Version: 1

SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number or ID number: UN1139

14.2 UN proper shipping name: COATING SOLUTION (includes surface treatments or coatings used

for industrial or other purposes such as vehicle under coating, drum

or barrel lining)

14.3 Transport hazard class(es): 3

Labels: 3

14.4 Packing group: ΙΙ 14.5 Environmental hazards: 14.6 Special precautions for user

> Special regulations: Non-applicable

Tunnel restriction code: D/E

Physicosee section 9

Chemical properties: 5 L

14.7 Maritime transport in bulk according to IMO

instruments:

Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1 UN number or ID number: UN1139

COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, dru 14.2 UN proper shipping name:

3

14.3 Transport hazard class(es):

Labels: 3

ΙΙ 14.4 Packing group:

14.5 Marine pollutant: No 14.6 Special precautions for user

> Non-applicable Special regulations: F-E, S-E EmS Codes:

Physico-Chemical properties: see section 9

Limited quantities:

Segregation group: Non-applicable

14.7 Maritime transport in bulk

according to IMO

Non-applicable

instruments:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



14.1 UN number or ID number: UN1139

14.2 UN proper shipping name: COATING SOLUTION (includes surface treatments or coatings used

for industrial or other purposes such as vehicle under coating, drum

or barrel lining)

14.3 Transport hazard class(es): 3

> 3 Labels:

14.4 Packing group: ΙΙ

14.5 Environmental hazards: No

14.6 Special precautions for user

Physico-Chemical properties: see section 9

14.7 Maritime transport in bulk according to IMO

Non-applicable

instruments:

SECTION 15: REGULATORY INFORMATION



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TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 15: REGULATORY INFORMATION (continued)

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIOUIDS	5000	50000

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):



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TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 15: REGULATORY INFORMATION (continued)

Contains more than 0.1 % of 4,4 '-

methylenediphenyl diisocyanate by weight. This product may not be distributed in its present form for firsttime sale to the general public after 27th December 2010 unless the packaging contains protective gloves meeting the provisions of Regulation (EU) 2016/425.

Shall not be used in:

- -ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes,
- -games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Contains more than 0.1 % of 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, 4,4

methylenediphenyl diisocyanate by weight. 1. Shall not be used as substances on their own, as a constituent in other substanc es or in mixtures for industrial and professional use(s) after 24 August 2023, unless:

- (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the employer or self
- 2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for indust and professional use(s) after 24 February 2022, unless:
- (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (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".
- 3. For the purpose of this entry "industrial and professional user(s)" means any worker or selfdiisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s)
- 4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalat exposure to disocyanates 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:
- (a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).
- (b) the training elements in points (a) and (b) of paragraph 5 for the following uses:
- 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
- (c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:
- 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.

5. Training elements:

- (a) general training, including on-line training, on:
- chemistry of diisocyanates
- cnemistry or unsocyaniaces
 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

- CONTINUED ON NEXT PAGE -



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TWEHA Blacken 30 ML

Date of compilation: 07/11/2023 Version: 1

SECTION 15: REGULATORY INFORMATION (continued)

- 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
- (b) intermediate level training, including on-line training, on:
- 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
- (c) advanced training, including on-line training, on:
- 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
- 6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) oper Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture
- 7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material 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,
- 8. The employer or self- training shall be renewed at least every five years.
- 9. Member States shall include in their reports pursuant to Article 117(1) the following informatio
- (a) any established training requirements and other risk management measures related to the industrial and professional use s of diisocyanates foreseen in national law
- (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates
- (c) national exposure limits for diisocyanates, if there are any
- (d) information about enforcement activities related to this restriction.
- 10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at workplace.

Contains Dimethylbis[(1-oxoneodecyl)oxy]stannane. 1. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint. 2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of: (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes

- (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming
- (c) any totally or partly submerged appliance or equipment. 3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data shee has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:



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Date of compilation: 07/11/2023 Version: 1

SECTION 16: OTHER INFORMATION (continued)

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H225: Highly flammable liquid and vapour.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 3: H301 - Toxic if swallowed. Acute Tox. 3: H331 - Toxic if inhaled. Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Carc. 2: H351 - Suspected of causing cancer. Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Lig. 2: H225 - Highly flammable liquid and vapour.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction. Skin Sens. 1A: H317 - May cause an allergic skin reaction.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation. STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Eye Irrit. 2: Calculation method STOT SE 3: Calculation method Resp. Sens. 1: Calculation method Flam. Liq. 2: Calculation method (2.6.4.3)

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50

LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.