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according to 1907/2006/EC, Article 31

Printing date 20.09.2023

Version number 1

Revision: 20.09.2023

1 Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier Trade name: 4200UV · Other Means of Identification: UV Curable Conformal Coating · Related Part Number: 4200UV, 4200UV-945ML, 4200UV-3.78L · UFI: 58R0-10PR-8006-PNCW · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture UV Curable Conformal Coating · Uses advised against Industrial use only. · 1.3 Details of the supplier of the safety data sheet M.G. Chemicals Ltd. · Manufacturer/Supplier: MG Chemicals Ltd. (Head Office) 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA +(1) 800-340-0772 sds@mgchemicals.com MG Chemicals (Head Office) 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA +(1) 800-340-0772 sds@mgchemicals.com MG Chemicals Heame House, 23 Bliston Street Sedgely Dudley DY3 1JA. UNITED KINGDOM +(44) 1663 362888 sales@mgchemicals.com MG Chemicalst Ltd. Level 2, Vision Exchange, Building Territorials Street, Zone 1, Central Business, District, Birkirkara CBD 1070, MALTA · Further information obtainable from: Regulatory Department. · 1.4 Emergency telephone number: Verisk 3E (Access code: 335388), +(44) 20 3514787 Other emergency telephone numbers: +(0) 800 680 0425 2 Hazards identification · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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ade name: 4200UV		
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GHS09 6	environment	
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lastir	ng effects.
GHS07		
Skin Sens. 1	H317 May cause an allergic skin reaction.	
· 2.2 Label element		
· Labelling accord	ing to Regulation (EC) No 1272/2008	
The product is clas	sified and labelled according to the GB CLP	regulation.
$\sim \sim$		
GHS05 GHS07	GHS09	
· Signal word Dang	ger	
	ng components of labelling:	
lsocyanatoacrylate	bicyclo[2.2.1]hept-2-yl acrylate	
pentaerythritol tria		
pentaerythritol tetr		
· Hazard statement		
H318 Causes serie		
	n allergic skin reaction.	
	aquatic life with long lasting effects.	
 Precautionary sta P102 	Keep out of reach of children.	
P280	Wear protective gloves and eye protection.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
	IF IN EYES: Rinse cautiously with water	for several minutes. Remove
	contact lenses, if present and easy to do. Co	
P310	Immediately call a POISON CENTER/doctor	
P333+P313	If skin irritation or rash occurs: Get medical a	
P501	Dispose of contents/container in accordance international regulations.	ce with local/regional/national/
· Additional inform	0	
Contains pentaer	ythritol triacrylate, pentaerythritol tetraacry	late. May produce an allergic
reaction.		
	available on request.	
 2.3 Other hazards Besults of PBT at 	s nd vPvB assessment	
• PBT: Not applicab		
• vPvB: Not applicat		
Determination of	endocrine-disrupting properties	
Endooring Digrupt	or substance $\geq 0.1\% =$ none	

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3.2 Mixtures Description: Mixture of substances listed below with nonhazardous additions.			
Dangerous components:			
CAS: 5888-33-5	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate � Aquatic Acute 1, H400; Aquatic Chronic 1, H410; � Skin Sens. 1, H317	52.0% 1	
	Isocyanatoacrylate	27.9–28.1%	
CAS: 123-86-4 EINECS: 204-658-	n-butyl acetate 1 🐵 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336, EUH066	4.55–6.1%	
CAS: 3524-68-3 EINECS: 222-540-	pentaerythritol triacrylate 8 10 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	4.0%	
CAS: 4986-89-4 EINECS: 225-644-	pentaerythritol tetraacrylate ¹	2.0% ction 16.	

4 First aid measures

· 4.1 Description of first aid measures

- · After inhalation:
- Supply fresh air and to be sure call for a doctor.

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

After skin contact: Immediately wash with water and soap and rinse thoroughly.
 After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. **5.2 Special hazards arising from the substance or mixture**
- Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

- Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm

Long-term value: 724 mg/m³, 150 ppm

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

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

- **Respiratory protection:** Not required.
- Hand protection



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· Material of gloves

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles

9 Physical and chemical properties

General Information Physical state	Fluid		
Colour:	According to product specification		
Odour:	Characteristic		
Odour threshold:	Not determined.		
Melting point/freezing point:	Undetermined.		
Boiling point or initial boiling point and			
boiling range	127 °C		
Flammability	Not applicable.		
Lower and upper explosion limit	Not applicable.		
Lower:	1 Vol %		
Upper:	8 Vol %		
Flash point:	68 °C		
Decomposition temperature:	Not determined.		
pH	Not determined.		
Viscosity:	Not determined.		
Kinematic viscosity	Not determined.		
Dynamic:	Not determined.		
Solubility	Not determined.		
water:	Fully missible		
	Fully miscible.		
Partition coefficient n-octanol/water (log	Not determined.		
value) Vanaur processo			
Vapour pressure:	Not determined.		
Density and/or relative density	1.00		
Density at 20 °C:	1.06 g/cm ³		
Relative density	Not determined.		
Vapour density	Not determined.		
9.2 Other information			
Appearance:			
Form:	Fluid		
Important information on protection			
health and environment, and on safety.			
Ignition temperature:	Product is not selfigniting.		
Explosive properties:	Product does not present an explosion hazard		
Solvent content:			
Organic solvents:	4.6–6.1 %		
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· VOC (EC)	4.55–6.1 %	
 Solids content: 	48.0 %	
 Change in condition 		
 Evaporation rate 	Not determined.	
Information with regard to physic	al hazard	
classes		
· Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
 Oxidising gases 	Void	
· Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
 Self-reactive substances and mixt 	t ures Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixt	ures Void	
· Substances and mixtures, which e	emit	
flammable gases in contact with v	vater Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
 Desensitised explosives 	Void	

10 Stability and reactivity

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

11 Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

123-86-4 n-butyl acetate

Oral LD50	13,100 mg/kg (rat)
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Dermal LD50 >5,000 mg/kg (rabbit)

Inhalative LC50/4 h >21 mg/l (rat)

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

- · Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.

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

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

- · Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards Endocrine disrupting properties

None of the ingredients is listed.

12 Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

13 Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

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

· European waste catalogue

HP13 Sensitising

HP14 Ecotoxic

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA
- · 14.2 UN proper shipping name
- ADR, IMDG, IATA
- · 14.3 Transport hazard class(es)
- · ADR, ADN, IMDG, IATA

not regulated

not regulated

· Class

not regulated

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- · 14.4 Packing group
- · ADR, IMDG, IATA
- 14.5 Environmental hazards:
- 14.6 Special precautions for user
- 14.7 Maritime transport in bulk according
- to IMO instruments • UN "Model Regulation":

Not applicable. not regulated

15 Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- None of the ingredients is listed.
- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- None of the ingredients is listed.
- Annex II REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors
- None of the ingredients is listed.
- <u>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between</u> the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

· Department issuing SDS: Product safety department.

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not regulated Not applicable. Not applicable. according to 1907/2006/EC, Article 31 Version number 1

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. (Contact: sds@mgchemicals.com
• L	Date of previous version: 20.09.2023
	Abbreviations and acronyms:
	DR: Accord relatif au transport international des marchandises dangereuses par route (European Agree
	Concerning the International Carriage of Dangerous Goods by Road)
	ADG: International Maritime Code for Dangerous Goods
	ATA: International Air Transport Association
C	HS: Globally Harmonised System of Classification and Labelling of Chemicals
E	INECS: European Inventory of Existing Commercial Chemical Substances
E	LINCS: European List of Notified Chemical Substances
C	AS: Chemical Abstracts Service (division of the American Chemical Society)
l	OC: Volatile Organic Compounds (USA, EU)
	C50: Lethal concentration, 50 percent
	D50: Lethal dose, 50 percent
	BT: Persistent, Bioaccumulative and Toxic
	PvB: very Persistent and very Bioaccumulative
	lam. Liq. 3: Flammable liquids – Category 3
	kin Irrit. 2: Skin corrosion/irritation – Category 2
	ye Dam. 1: Serious eye damage/eye irritation – Category 1
	ye Irrit. 2: Serious eye damage/eye irritation – Category 2
	kin Sens. 1: Skin sensitisation – Category 1
	TOT SE 3: Specific target organ toxicity (single exposure) – Category 3
	quatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
A	quatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
	quatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3
. *	Data compared to the previous version altered.