SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: Elladur CMC Base
Product code	: ELCMCB
1.2 Relevant identified us	ses of the substance or mixture and uses advised against
Material uses	: Paint or paint related material.
	: Industrial use only.
1.3 Details of the supplier sheet	of the safety data
Sherwin-Williams UK Limit Coatings Division EMEAI Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	ted - Protective & Marine
The Sherwin-Williams Cor Inver France SAS 2 Rue Jean Revaus - BP & Thouars CEDEX France	
e-mail address of persor responsible for this SDS	
1.4 Emergency telephone	number
National advisory body/F	
Telephone number	
<u>Supplier</u>	
Telephone number	: +(44)-870-8200 418
Hours of operation	: Emergency contact available 24 hours a day
SECTION 2: Hazards	identification
2.1 Classification of the se	ubstance or mixture
Product definition	: Mixture
Classification according	to Regulation (EC) No. 1272/2008 [CLP/GHS]
Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	
The product is classified a	s hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 16 for the full	text of the H statements declared above.
See Section 11 for more d	etailed information on health effects and symptoms.
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	C) No. 1907/2006 (REACH), Annex II
Elladur CMC Base ELCMCB	
	entification
SECTION 2: Hazards id	entification
2.2 Label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: May cause an allergic skin reaction.
	Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing vapour.
Response	 Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	 tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane
Supplemental label elements	 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. FOR INDUSTRIAL USE ONLY
Special packaging require	<u>nents</u>
Not applicable.	
2.3 Other hazards	
	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixture

tetraethyl N,N'- (methylenedicyclohexane- 4,1-diyl)bissc.dl.sc aspartate REACH #: 01-0000017556-64 EC: 429-270-1 CAS: 136210-30-5 Index: 607-521-00-8 REACH #: ≥10 - ≤25 Skin Sens. 1, H317 Aquatic Chronic 3, H412 - Aspartic Ester REACH #: ≤10 Skin Sens. 1, H317 -	[1]	
01-0000015937-58 Aquatic Chronic 3, EC: 412-060-9 H412 CAS: 136210-32-7 Index: 607-350-00-9	[1]	
Diethyl Fumarate EC: 210-819-7 CAS: 623-91-6 <3 Acute Tox. 4, H302 ATE [C Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	ral] = 1780 [1]	

SECTION 3: Composition/information on ingredients

		See Section 16 for the full text of the H statements declared above.		
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Туре</u>

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate, bis(4-(1,2-bis(ethoxycarbonyl) ethylamino)-3-methylcyclohexyl)methane. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed.
The exposed person may need to be kept under medical surveillance for 48 hours.

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SECTION 4: First aid measures

Specific treatments

: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting	j m	easures
5.1 Extinguishing media Suitable extinguishing media	:	Recommended: alcohol-resistant foam, CO ₂ , powders, water spray or mist.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	rom	the substance or mixture
Hazards from the substance or mixture	:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	:	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: Accidental release measures

.1 Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.		
		Keep unnecessary and unprotected personnel from entering.		
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
6.2 Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.		
6.3 Methods and material for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).		
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.		

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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

Examination of lung functio	n s	hould be carried out on a regular basis on persons spraying this mixture.
7.1 Precautions for safe handling	:	 Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Care should be taken when re-opening partly-used containers. Precautions should be taken to minimise exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurisation. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.
7.2 Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Notes on joint storage Keep away from: oxidising agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Contaminated absorbent material may pose the same hazard as the spilt product.
7.3 Specific end use(s)		
Recommendations		Not available.
Industrial sector specific solutions	:	Not available.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

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SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

- Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
 - : Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

Product/ingredient name	Туре	Exposure	Value	Population	Effects
tetraethyl N,N'- (methylenedicyclohexane-4,1-diyl) bissc.dl.scaspartate	DNEL	Long term Inhalation	28 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	112 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.8 mg/m ³	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	4.8 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	1.4 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Dermal	1.4 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	1.4 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Oral	1.4 mg/kg bw/day	General population [Consumers]	Systemic
Aspartic Ester	DNEL	Short term Inhalation	672 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	84 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	11.9 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	14.5 mg/m ³	General population [Consumers]	Systemic
	DNEL	Short term Dermal	4.2 mg/kg	General	Systemic

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

		bw/day	population	
			[Consumers]	
DNEL	Short term Oral	4.2 mg/kg	General	Systemic
			population	
			[Consumers]	
DNEL	Long term	14.5 mg/m ³	General	Systemic
	Inhalation		population	
			[Consumers]	
DNEL	Long term Dermal	4.2 mg/kg	General	Systemic
		bw/day	population	
			[Consumers]	
DNEL	Long term Oral	4.2 mg/kg		Systemic
	Ŭ		population	,
			[Consumers]	

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
tetraethyl N,N'-(methylenedicyclohexane- 4,1-diyl)bissc.dl.scaspartate	Fresh water	0.00013 mg/l	-
	Fresh water sediment	0.21 mg/kg dwt	-
	Marine water	0.000013 mg/l	-
	Marine water sediment	0.02 mg/kg	-
	Sewage Treatment	31.1 mg/l	-
	Plant	-	
Aspartic Ester	Fresh water	0.00013 mg/l	-
	Marine water	0.000013 mg/l	-
	Fresh water sediment	0.21 mg/kg dwt	-
	Marine water sediment	0.02 mg/kg dwt	-
	Sewage Treatment	31.1 mg/l	-
	Plant	-	
	Soil	0.1 mg/kg dwt	-

8.2 Exposure controls

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

•	
Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)
	 Users are advised to consider national Occupational Exposure Limits or other equivalent values.
Individual protection me	asures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	:
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SECTION 8: Exposure controls/personal protection

	Gloves for short term exposure/splash protection (less than 10 min): Nitrile >0.35
	mm Gloves for splash protection need to be changed immediately when in contact with chemicals.
	For long term exposure or spills (breakthrough time >480 min): Use PE_laminate gloves as under gloves.
	Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.
	There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
	The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
	Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	Always ensure that gloves are free from defects and that they are stored and used correctly.
	The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
	Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	 Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Grey.
Odour	: Characteristic.
Odour threshold	: Not available.
pН	 Not relevant/applicable due to nature of the product. insoluble in water.

SECTION 9: Physical and chemical properties

Melting point/freezing point	t relevant/applicable due to nature of the pro	duct.
Initial boiling point and boiling range	°C	
Flash point	sed cup: 65°C [Pensky-Martens Closed Cup	b]
Evaporation rate	3 (butyl acetate = 1)	
Flammability	t relevant/applicable due to nature of the pro	duct.
Lower and upper explosion limit	L: 0.85% (Dipropylene Glycol Dimethyl Ether L: 1.85% (Dipropylene Glycol Dimethyl Ethe	
Vapour pressure	3 kPa (0.943 mm Hg)	
Relative vapour density	Air = 1]	
Relative density	6	
Solubility(ies)		
Media	lesult	
cold water	ot soluble	

Partition coefficient: n-octanol/ : Not relevant/applicable due to nature of the product. *water*

3

Auto-ignition temperature

Ingredient name			°C	°		Method
Dipropylene Glycol Dimethyl Ether Ethanediol Diacetate tetraethyl N,N'-(methylenedicyclohe: sc.dl.scaspartate	ane-	4,1-diyl)bis	165 250 375	32 48 70	2	
Decomposition temperature		: Not rele	evant/appli	cable due t	o nature	of the product.
Viscosity		: Kinema	atic (40°C):	>20.5 mm ²	²/s	
Explosive properties		: Under r	normal con	nditions of s	torage a	nd use, hazardous reactions will not occur.
Oxidising properties		: Under r	normal con	nditions of s	torage a	nd use, hazardous reactions will not occur.
Particle characteristics						
Median particle size		: Not rele	evant/applic	cable due to	o nature	of the product.
9.2 Other information		10 117	,			
Heat of combustion		: 16.147	kJ/g			
SECTION 10: Stability an	d r	eactivity	,			
10.1 Reactivity	: 1	he produc	ct reacts slo	owly with wa	ater, resi	ulting in the production of carbon dioxide.
10.2 Chemical stability	: 5	table und	er recomm	ended stora	age and	handling conditions (see Section 7).
10.3 Possibility of hazardous reactions				pressure bung of the co		ould result in distortion, expansion and, in
10.4 Conditions to avoid	: 1	n a fire, ha	izardous de	ecompositio	on produ	cts may be produced.
10.5 Incompatible materials						alkalis, strong acids, amines, alcohols, occur with amines and alcohols.
10.6 Hazardous decomposition products	C		kide, smoke			following materials: carbon monoxide, n, hydrogen cyanide, monomeric

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SECTION 10: Stability and reactivity

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 11: Toxicological information

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

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate, bis(4-(1,2-bis(ethoxycarbonyl) ethylamino)-3-methylcyclohexyl)methane. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Diethyl Fumarate	LD50 Oral	Rat	1780 mg/kg	-
Acute toxicity estimates	•	•		

Route ATE value Oral 169523.81 mg/kg

Irritation/Corrosion

No data available	
Conclusion/Summary	: Not available.
Sensitisation	
No data available	
Conclusion/Summary	: Not available.
Mutagenicity	
No data available	

<u>Carcinogenicity</u>

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Diethyl Fumarate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

No data available

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
Diethyl Fumarate	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
No data available						
Conclusion/Summary	: Not available.					
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
No data available						

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tetraethyl N,N'- (methylenedicyclohexane- 4,1-diyl)bissc.dl.sc aspartate	-	0.25	Low
Aspartic Ester	-	0.25	Low

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

SECTION 12: Ecological information

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal of	SECTION 13: Disposal considerations			
13.1 Waste treatment metho	ds			
<u>Product</u>				
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.		
Hazardous waste	:	Yes.		
European waste catalogue (EWC)	:	waste isocyanates 08 05 01*		
Disposal considerations	:	Do not allow to enter drains or watercourses. Residues in empty containers should be neutralised with a decontaminant (see section 6). Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.		
<u>Packaging</u>				
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		
Disposal considerations	:	Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.		
European waste catalogue (EWC)	:	packaging containing residues of or contaminated by hazardous substances 15 01 10*		
Special precautions	:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport Hazard Class(es)/ Label(s)	-	-	-
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II Elladur CMC Base ELCMCB				
SECTION 14: Transport information				
14.4 Packing group	-	-	-	
14.5 Environmental hazards	No.	No.	No.	
Additional information	-	-	-	

This mixture is not classified as dangerous according to international transport regulations (ADR	(RID,)	IMDG,
ICAO/IATA).		

14.6 Special precautions for	:	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in
		the event of an accident or spillage.

14.7 Maritime transport in	: Not applicable
bulk according to IMO	
instruments	

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name		%	Designation [Usage]
Elladur CMC Base		≥90	3
Labelling <u>Dther EU regulations</u>	: Not applicable.	-	
VOC content (2010/75/EU)	: 48.8 w/w 564 g/l		
Explosive precursors <u>Seveso Directive</u>	: Not applicable.		
This product is not controlled lational regulations	I under the Seveso Directive.		
.2 Chemical safety sessment	: No Chemical Safety Assessment has been car	ried out.	

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
Key literature references and sources for data	 N/A = Not available Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions CEPE Guidelines

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classif	ication	Justification
Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412		Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H315 Causes H317 May ca H318 Causes H319 Causes H335 May ca	Il if swallowed. s skin irritation. use an allergic skin reaction. s serious eye damage. s serious eye irritation. use respiratory irritation. Il to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of printing	: 31, Jan, 2024.	
Date of issue/ Date of revision	: 31, Jan, 2024	
Date of previous issue	: 25, Sep, 2023	
	: If there is no previous val information.	idation date please contact your supplier for more
Version	: 5	
Notice to reader		

SECTION 16: Other information

In accordance with Regulation (EC) 1907/2006, REACH Regulation, Articles 31, 37, any required hazard-related information on the use of substances received as downstream user will be sent forward. Consequently, the safety data sheets for some products will contain a SUMI - Safe Use of Mixture Information - attached to the safety data sheet.

SUMI(s) will be added to the SDS for products if both the following conditions are met:

• The product is classified as hazardous for health

• The product contains one or more REACH-registered substances for which extended safety data sheets (exposure scenarios) have been provided

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can may change later the composition, hazards and risks of the product. Products shall should not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to, the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS, without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS. the manufacturer cannot be held responsible for SDSs obtained from any other source.

Title

SUMI Safe Use of Mixtures Information for end-users

: Professional painting, indoor brush/roller

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

General description of the process covered

Indoor painting by professionals with brush or roller, with good general room ventilation (open doors/windows)

Operational conditions

Place of use : Indoor use

Risk management measures (RMM)

Contributing activity Process category (ies)	• •	Maximum	Ventila	Ventilation		
	duration	Туре	ach (air changes per hour)			
Preparation of material for application	PROC05	15 minutes to 1 hour	Good general room ventilation	3 - 5		
Loading of application equipment and handling of coated parts before curing	PROC08a	15 minutes to 1 hour	Good general room ventilation	3 - 5		
Professional application of coatings and inks by brush or roller	PROC10	15 minutes to 1 hour	Good general room ventilation	3 - 5		
Film formation - force drying, stoving and other technologies	PROC04	15 minutes to 1 hour	Good general room ventilation	3 - 5		
Cleaning	PROC05	15 minutes to 1 hour	Good general room ventilation	3 - 5		
Waste management	PROC08a	15 minutes to 1 hour	15 minutes to 1 hour Good general room ventilation 3			
Contributing activity	Process category (ies)	Respiratory	Eye	Hands		
Preparation of material for application	PROC05	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
Loading of application equipment and handling of coated parts before curing	PROC08a	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
Professional application of coatings and inks by brush or roller	PROC10	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
Film formation - force drying, stoving and other technologies	PROC04	None	None	None		
Cleaning	PROC05	Wear a respirator conforming to EN140 with	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in		

Elladur CMC Base Professional painting, indoor brus				ng, indoor brush/roller
Waste management	PROC08a	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.

See chapter 8 of this Safety Data Sheet for specifications.



Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

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