

Safety Data Sheet

according to 1907/2006/EC, Article 31, (Commission Regulation (EU) 2020/878)

Trade name: **Defensyl™ CC-MB**

Version: 9

Revision: 2024.02.22

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

1.1 Product identifier

Trade name Defensyl™ CC-MB
CAS number 62125-22-8 (and) 65381-09-1 (and) 94891-33-5 (and) 108-32-7 (and) 221227-05-0

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

Recommended Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU21 Consumer uses: Private households/general public/consumers
SU22 Professional uses

Uses advised against Not determined
Product category Not determined
Process category Not determined

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier
CORUM INC.
6FL., No.360, Ruei Guang Rd.,
Neihu Dist., Taipei 114729, Taiwan
Further information obtainable from
marketing.support@corum.com.tw

1.4 Emergency telephone number

Company phone number CORUM Tel. 886-2-8751-6060
Fax. 886-2-8751-6363

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Based on available data, the classification criteria are not met.

2.2 Label elements

Label according to Regulation (EC) No 1272/2008
Not applicable

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

Based on available data, the ingredients of this mixture do not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII.

vPvB:

Based on available data, the ingredients of this mixture do not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII.

Determination of endocrine-disrupting properties

The product does not contain ingredients with endocrine-disrupting properties for humans.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Composition/information on ingredients

Name	Chemical name	Identification	Classification	SCLs, M-Factors	%
COMPONENT					
Pentaerythrityl Tetraisostearate	-	(CAS No.) 62125-22-8 (EC No.) 263-423-1	Not Classified	-	87.95-94.75%
Caprylic/Capric Triglyceride	-	(CAS No.) 65381-09-1 (EC No.) 265-724-3	Not Classified	-	5-10%
Stearalkonium Hectorite	-	(CAS No.) 94891-33-5 (EC No.) 305-633-9	Not Classified	-	0.1-1%
Propylene Carbonate	-	(CAS No.) 108-32-7 (EC No.) 203-572-1	Eye Irrit. 2. H319	-	0.1-1%
Palmitoyl Tetrapeptide-7	-	(CAS No.) 221227-05-0 (EC No.) -	-	-	0.05%

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures**General information**

Remove contaminated clothing. Seek medical treatment.

After inhalation

Supply fresh air. Consult a doctor in case of complaints.

After skin contact

Immediately wash with soap and copious amounts of water. If symptoms develop, seek medical attention.

After eye contact

Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Rinse mouth with water. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed**Symptoms**

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

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Note to physicians

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media

Not determined.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment:

No special measures required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

May have particular danger of slipping on leaked/spilled product.

Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up

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

Sweep up, place in a bag and hold for waste disposal.

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.

SECTION 7: HANDLING AND STORAGE

7.1 Precaution for safe handling

Advice on safe handling

No special precautions are necessary if used correctly.

Avoid free fall and splashing.

Prevent the risk of slipping.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Protect from heat and direct sunlight.

Protect from humidity and water.

Protect from exposure to the light. Keep container tightly sealed.

Incompatible materials

None known based on information supplied.

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Storage class (VbF)	No
Requirements to be met by storerooms and receptacles	No special measures required.
Information about storage in common storage facility	Not required
Further information about storage conditions	None

7.3 **Specific end use(s)** No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**

Ingredients with limit values that require monitoring at the workplace

Exposure limits	The product does not contain relevant quantities of materials with critical values that have to be monitored at the workplace.
DNEL	Not determined
PNEC	Not determined
Additional information	The valid lists during this review were used as a basis.

8.2 **Exposure controls**

Appropriate engineering controls Ensure that eyewash and safety showers are in close proximity to work location. Good general ventilation is recommended for handling the product. No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.

Personal protective equipment

Respiration protection Not necessary if room is well-ventilated.

Hands 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

Material of gloves

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

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material cannot 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 protection Chemical safety goggles

General protective measure Avoid contact with the eyes and skin.

General hygiene measure The usual precautionary measures are to be adhered to when handling chemicals.

Environmental exposure controls No further relevant information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Liquid
Color	Pale yellow with hazy
Odor	Characteristic
Odor threshold	100 ppm

Property

pH value (5%)	Not determined
Melting point/Melting range	Not determined
Boiling point/Boiling range	Not determined
Flash point	>250°C (ASTM D92)
Flammability (solid, gaseous)	Not applicable
Ignition temperature	Not determined
Decomposition temperature	Not determined
Self-igniting	Product is not self-igniting.
Danger of explosion	Product does not present an explosion hazard.
Explosion limit	
Lower	Not determined
Upper	Not determined
Oxidizing properties	Not determined
Explosive properties	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Relative density	Not determined
Evaporation rate	Not determined
Solubility	Not determined
Partition coefficient (n-octanol/water at 25 °C)	Not determined
Kinematic viscosity	Not applicable
Dynamic viscosity	250-450 cps

9.2 Other information

Surface tension	Not determined
Dissociation constant	Not determined
Granulometry	Not determined

Information with regard to physical hazard classes

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Explosives	Void
Flammable Gases and Chemically Unstable Gases	Void
Flammable Aerosols	Void
Oxidising Gases	Void
Gases Under Pressure	Void
Flammable Liquids	Void
Flammable Solids	Void
Self-reactive Substances and Mixtures	Void
Pyrophoric Liquids	Void
Pyrophoric Solids	Void
Self-heating Substances and Mixtures	Void
Substances and Mixtures which in contact with water emit flammable gases	Void
Oxidising Liquids	Void
Oxidising Solids	Void
Organic Peroxides	Void
Substances and Mixtures corrosive to Metals	Void
Desensitized Explosives	Void

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not determined

10.2 Chemical stability

The product is stable under ordinary condition.

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 material

Strong oxidizing agents

Strong acids

Strong bases

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Name	Pentaerythrityl Tetraisostearate CAS:62125-22-8	Caprylic/Capric Triglyceride CAS:65381-09-1	Stearalkonium Hectorite CAS:94891-33-5	Propylene Carbonate CAS:108-32-7	Palmitoyl Tetrapeptide-7 CAS:221227-05-0

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Acute toxicity	*The available data indicate a very low level of acute toxicity for the category members and thus, no hazard for acute oral, inhalation and dermal toxicity was identified.	Not Classified	Not Classified	*Based on available data, the classification criteria are not met.	Not determined
Skin corrosion/irritation	*No adverse effect observed (not irritating)	Not Classified	Not Classified	*No adverse effect observed (not irritating)	No irritant (dilution at 5%)
Serious eye damage/irritation	*No adverse effect observed (not irritating)	Not Classified	Not Classified	*Eye Irrit. 2 *Adverse effect observed (irritating)	Slightly irritant (dilution at 10%)
Respiratory tract	Not determined	Not Classified	Not Classified	Not determined	Not determined
Respiratory/skin sensitization	*No adverse effect observed (not sensitising)	Not Classified	Not Classified	Not determined	Not determined
Toxicokinetics, metabolism and distribution	Not determined	Not Classified	Not Classified	Not determined	Not determined
Repeated dose toxicity	*No adverse effect observed	Not Classified	Not Classified	*No adverse effect observed	Not determined
Germ Cell mutagenicity	*Based on available data, the classification criteria are not met.	Not Classified	Not Classified	*Based on the available data and according to the criteria of the CLP Regulation (EC) 1272/2008, propylene carbonate should not be classified for mutagenicity.	Not determined
Carcinogenicity	Not determined	Not Classified	Not Classified	*According to the available data and the criteria of the CLP Regulation, propylene carbonate should not be classified for carcinogenicity.	Not determined
Reproductive toxicity	*Based on available data, the classification criteria are not met.	Not Classified	Not Classified	*Based on available data, the classification criteria are not met.	Not determined
STOT-single exposure	Not determined	Not Classified	Not Classified	Not Classified	Not determined
STOT-repeated exposure	Not determined	Not Classified	Not Classified	Not Classified	Not determined
Aspiration hazard	Not determined	Not Classified	Not Classified	Not Classified	Not determined

*from ECHA webpage registration data

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The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

11.2 Information on other hazards

Endocrine disrupting properties Substance is not listed.

SECTION 12: ECOLOGICAL INFORMATION

Name	Pentaerythrityl Tetraistearate CAS:62125-22-8	Caprylic/Capric Triglyceride CAS:65381-09-1	Stearalkonium Hectorite CAS:94891-33-5	Propylene Carbonate CAS:108-32-7	Palmitoyl Tetrapeptide-7 CAS:221227-05-0
12.1 Toxicity Aquatic toxicity	*Danio rerio, LC50: (96H) > 100 mg/L (nominal) Pseudokirchneriella subcapitata, EL50: (72H) > 100 mg/L Daphnia magna, EL50: (72H) > 100 mg/L (nominal), (read-across) Daphnia magna, NOELR: (21D) ≥ 1 mg/L Pseudokirchneriella subcapitata, NOEL: (72H) ≥ 100 mg/L	No further relevant information available.	No further relevant information available.	*Propylene carbonate needs not to be classified for the environment based on the CLP Classification and labelling criteria.	No further relevant information available.
12.2 Persistence and degradability	*Several studies confirming ready biodegradability are available for the polyol PE esters group.	No further relevant information available.	No further relevant information available.	*Propylene carbonate is readily biodegradable.	No further relevant information available.
12.3 Bioaccumulative potential	*Based on calculated BCF values as well as literature on metabolism, bioaccumulation is not expected for aquatic organisms.	No further relevant information available.	No further relevant information available.	*No bioaccumulation is expected based on the low log Kow (log Pow= -0.41) and the property of readily biodegradability of the substance.	No further relevant information available.
12.4 Mobility in soil	No further relevant information available.	No further relevant information available.	No further relevant information available.	No further relevant information available.	No further relevant information available.
12.5 Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable	PBT: Not applicable vPvB: Not applicable	PBT: Not applicable vPvB: Not applicable	PBT: Not applicable vPvB: Not applicable	PBT: Not applicable vPvB: Not applicable
12.6 Endocrine disrupting	The product does not contain	The product does not contain	The product does not contain	The product does not contain	The product does not contain

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properties	substances with endocrine disrupting properties.	substances with endocrine disrupting properties.	substances with endocrine disrupting properties.	substances with endocrine disrupting properties.	substances with endocrine disrupting properties.
12.7 Other adverse effects	No further relevant information available.	No further relevant information available.	No further relevant information available.	No further relevant information available.	No further relevant information available.

*from ECHA webpage registration data

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation	Incineration Observe federal, state and local environmental regulations.
European waste catalogue	Not applicable

13.2 Uncleaning packaging

Recommendation	Disposal must be made according to official regulations. Packaging may be reused or recycled after cleaning. Packaging that may not be cleansed are to be disposed of in the same manner as the product.
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SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable

14.2 UN proper shipping name

ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable

14.3 Transport hazard class(es)

ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable

14.4 Packing group

ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable

14.5 Environmental hazard

Marine pollutant	No
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14.6 Special precautions for user

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Special precaution for user Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

14.8 ICAO/IATA – DGR
Not regulated as dangerous good

14.9 Maritime transport in bulk according to
IMO instruments Not applicable
UN "Model Regulation" Not applicable

SECTION 15: REGULATORY INFORMATION

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

Name	Pentaerythrityl Tetraisostearate CAS:62125-22-8	Caprylic/Capric Triglyceride CAS:65381-09-1	Stearalkonium Hectorite CAS:94891-33-5	Propylene Carbonate CAS:108-32-7	Palmitoyl Tetrapeptide-7 CAS:221227-05-0
Inventory - United States - Toxic Substances Control Act (TSCA)	Y	Y	N	Y	N
Inventory - Canada - Domestic Substances List (DSL)	N	Y	N	Y	N
Inventory - Canada - Non-Domestic Substances List (NDSL)	Y	N	N	N	N
Inventory - Canada - Revised In Commerce List (R-ICL)	Y	N	Y	N	Y
ECHA Inventory of substances	Y	Y	Y	Y	N
Japan Existing and New Chemical Substances (ENCS)	Y	Y	Y	Y	N
Inventory of Existing Chemical Substances in China (IECSC)	Y	Y	Y	Y	N
Korean Existing and Evaluated Chemical Substances (KECL)	Y	Y	N	Y	N
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Y	Y	N	Y	N
Australian Inventory of Industrial Chemicals (AIIIC)	Y	Y	N	Y	N
New Zealand Inventory of Chemicals	Y	Y	Y	Y	N
TCSI - Taiwan	Y	Y	Y	Y	Y

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Chemical Substance Inventory					
OECD - List of High Production Volume Chemicals	N	Y	N	Y	N

Y : listed, N : not listed, E : exempted

Directive 2004/42/EC**Seveso category**

Substance is not listed.

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

Substance is not listed.

Regulation (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer - ANNEX I (Ozone-depleting potential)

Substance is not listed.

National regulations**Other regulations, limitations and prohibitive regulations**

Not determined

Substances of very high concern (SVHC) according to REACH, Article 59(10)

Substance is not listed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of CORUM Inc. It relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. CORUM Inc. assumes no legal responsibility for use of or reliance upon this information.

Important phrase

H319 causes serious eye irritation.

Abbreviations and acronyms

NOAEL: Non Observed Adverse Effect Level

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LOAEL: Lowest Observed Adverse Effect Level

WAF: Water Accommodated Fraction

NOEC: No Observed Effect Concentration

GHS: Globally Harmonized System of Classification and Labeling Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstract Service (division of the American Chemical Society)

VbF: Ordinance on the storage of combustible liquids, Austria

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

STOT: Specific target organ toxicity

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

ADR: Agreement on Dangerous Goods by Road

RID: Regulations concerning the Intl Transport of Dangerous Goods by Rail

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

Sources

Own data from manufacture

Chemical safety report according to REACH registration dossier