

Safety Data Sheet

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

Trade name: **C-Pep™ Defensyl**

Version: 8

Revision: 2023.10.06

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

1.1 Product identifier

Trade name **C-Pep™ Defensyl**
CAS number **56-81-5 (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
This substance is not classified according to the CLP regulation.

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					
Glycerin	Glycerol	(CAS No.) 56-81-5 (EC No.) 200-289-5	Not Classified	-	99.95%
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

No data available.

After inhalation

Supply fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical treatment.

After skin contact

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

After eye contact

Check for and remove any contact lenses. Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Rinse mouth with water. Call for medical help 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

Note to physicians

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

CO₂, powder or water spray.

Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media

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Not determined

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment:

Wear protective clothing and glasses.

Wear self-contained respiratory protective device.

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).

Dispose of material collected according to regulations.

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

Keep away from heat and direct sunlight. Shake well before use.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities.

Storage conditions

Store only in the original receptacle.
Store away from oxidizing agents.
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.

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

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Further information about storage conditions

Once the appearance of this product becomes hazy translucent or has bubbles, it is because of the high concentration of peptide inside. We suggest adding 10% of the product into pure water to test. If the liquid turns transparent, to the best of our knowledge, the product is qualified.

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

Not required

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



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.

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	Viscous liquid
Color	Colorless
Odor	Characteristic
Odor threshold	Not determined

Property

pH value (5%)	Not determined
Melting point/Melting range	Not determined
Boiling point/Boiling range	Not determined
Flash point	204°C (ASTM D92)
Flammability (solid, gaseous)	Not determined
Ignition temperature	Not determined
Decomposition temperature	Not determined
Self-igniting	Not determined
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	Fully miscible
Partition coefficient (n-octanol/water at 25 °C)	Not determined
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable

9.2 Other information

Surface tension	Not applicable
Dissociation constant	Not applicable
Granulometry	Not applicable

Information with regard to physical hazard classes

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	

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	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

See Section 7 for information on safe handling.

10.5 Incompatible materials

See Section 7 for information on safe handling.

10.6 Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Name	Glycerin CAS:56-81-5	Palmitoyl Tetrapeptide-7 CAS:221227-05-0
Acute toxicity	There is no justification for classification based on data from available studies.	Not determined
Skin corrosion/irritation	*No adverse effect observed (not irritating)	No irritant effect (tested at 5%)
Serious eye damage/irritation	*No adverse effect observed (not irritating)	Slightly irritant (dilution at 10%)
Respiratory tract	Not determined	Not determined
Respiratory/skin sensitization	*Not sensitising, OECD 429: S.I. of 1.1, 0.7 and 0.5 at 25%, 50% and 100% v/v There is no justification for classification based on data from available studies.	Not determined
Toxicokinetics, metabolism and distribution	Not determined	Not determined

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Repeated dose toxicity	There is no justification for classification based on data from available studies.	Not determined
Germ Cell mutagenicity	*No adverse effect observed (negative) There is no justification for classification based on data from available studies.	Not determined
Carcinogenicity	*There was no indication of a carcinogenic response in rats fed 8000 mg/kg/day glycerol in the diet for 2 years.	Not determined
Reproductive toxicity	There is no justification for classification based on data from available studies.	Not determined
STOT-single exposure	Not determined	Not determined
STOT-repeated exposure	Not determined	Not determined
Aspiration hazard	Not determined	Not determined

*from ECHA webpage registration data

11.2 Information on other hazards

Endocrine disrupting properties Substance is not listed.

SECTION 12: ECOLOGICAL INFORMATION

Name	Glycerin CAS:56-81-5	Palmitoyl Tetrapeptide-7 CAS:221227-05-0
12.1 Toxicity Aquatic toxicity	*Due to the low acute and chronic toxicity to aquatic organisms as reported i no environmental classification is required for Glycerol.	No further relevant information available.
12.2 Persistence and degradability	*The biodegradation of glycerin was examined using industrial activated sludge. Glycerin was nearly completely degraded within 24 hours.	No further relevant information available.
12.3 Bioaccumulative potential	*The study does not need to be conducted because the substance has a low potential for bioaccumulation based on log Kow <=3	No further relevant information available.
12.4 Mobility in soil	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
12.6 Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	No further relevant information available.	No further relevant information available.

*from ECHA webpage registration data

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation	Observe community, national or regional regulations for waste handling and treatment.
European waste catalogue	Not applicable

13.2 Uncleaning packaging

Recommendation	Disposal must be made according to official regulations.
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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

Special precaution for user	Not applicable
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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

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SECTION 15: REGULATORY INFORMATION

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

Name	Glycerin CAS:56-81-5	Palmitoyl Tetrapeptide-7 CAS:221227-05-0
Inventory - United States - Toxic Substances Control Act (TSCA)	Y	N
Inventory - Canada - Domestic Substances List (DSL)	Y	N
Inventory - Canada Non-Domestic Substances List (NDSL)	N	N
ECHA Inventory of substances	Y	N
Japan Existing and New Chemical Substances (ENCS)	Y	N
Inventory of Existing Chemical Substances in China (IECSC)	Y	N
Korean Existing and Evaluated Chemical Substances (KECL)	Y	N
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Y	N
Australian Inventory of Industrial Chemicals (AIIC)	Y	N
New Zealand Inventory of Chemicals	Y	N
TCSI - Taiwan Chemical Substance Inventory	Y	Y
OECD - List of High Production Volume Chemicals	Y	N

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

U.S. - FIFRA - Pesticide Product Other Ingredients

Substance is not listed.

U.S. - EPA - HPV (High Production Volume) Challenge Program Chemical List

Substance is not listed.

NOSH - Health Standards - Pesticides

Substance is not listed.

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.

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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

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Abbreviations and acronyms

NOAEL: Non Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

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

SVHC: Substances of Very High Concern

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

STOT: Specific Target Organ Toxicity

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