

Safety Data Sheet

according to 1907/2006/EC, Article 31

Trade name: **C-Pep™ Defensyl**

Version: 6

Revision: 2020.01.03

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 11492, 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
Not applicable

Safety Data Sheet

according to 1907/2006/EC, Article 31

Trade name: **C-Pep™ Defensyl**

Version: 6

Revision: 2020.01.03

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Chemical characterization:** Mixture

3.2 **Composition/information on ingredients**

Chemical Name	CAS No.	EC No.
Glycerin	56-81-5	200-289-5
Palmitoyl Tetrapeptide-7	221227-05-0	--

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

Note to physicians	No further relevant information available
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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

Not determined

5.2 **Special hazards arising from the substance or mixture**

No further relevant information available

Safety Data Sheet

according to 1907/2006/EC, Article 31

Trade name: **C-Pep™ Defensyl**

Version: 6

Revision: 2020.01.03

5.3 Advice for firefighters

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.
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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.
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Incompatible materials	None known based on information supplied
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Storage class (VbF)	No
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7.3 Specific end use(s)

	No further relevant information available
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Safety Data Sheet

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Trade name: **C-Pep™ Defensyl**

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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

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

Safety Data Sheet

according to 1907/2006/EC, Article 31

Trade name: **C-Pep™ Defensyl**

Version: 6

Revision: 2020.01.03

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

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

Safety Data Sheet

according to 1907/2006/EC, Article 31

Trade name: **C-Pep™ Defensyl**

Version: 6

Revision: 2020.01.03

SECTION 11: TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects**Acute toxicity****LD/LC50 values relevant for classification**

	Effect dose/concentration	Value	Species
Substance 56-81-5 Glycerol			
Acute oral toxicity	LD50	12600mg/kg bw	rat
Acute dermal toxicity	LD50	>21900 mg/kg	rat

Primary Irritant effect**Skin corrosion/irritation**

None of the components is classified as skin irritant.

Serious eye damage/irritation

Not irritant effect

Based on available data, the classification criteria are not met.

Respiratory tract

Not determined

Respiratory/skin sensitization

Not determined

Additional toxicological information**Toxicokinetics, metabolism and distribution**

Not determined

Repeated dose toxicity

Not determined

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**Germ Cell mutagenicity**

Negative results in test OECD 471, Bacterial Reverse Mutation Test (Ames test)

Carcinogenicity

Not determined

Reproductive toxicity

Not determined

STOT-single exposure

Not determined

STOT-repeated exposure

Not determined

Aspiration hazard

Not determined

SECTION 12: ECOLOGICAL INFORMATION
12.1 Toxicity**Aquatic toxicity**

	Effect dose/concentration	Value	Species
Substance 56-81-5 Glycerol			
Acute toxicity	EC50 (24hr)	>10000mg/L	fish
Acute toxicity	LC100 (96hr)	51000-57000 mg/L	daphnia magna

Safety Data Sheet

according to 1907/2006/EC, Article 31

Trade name: **C-Pep™ Defensyl**

Version: 6

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12.2 Persistence and degradability

Biodegradable

12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water a worth mentioning accumulation in organism is not expected.

12.4 Mobility in soil

No further relevant information available

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Recommendation**

Observe community, national or regional regulations for waste handling and treatment.

13.2 Uncleaning packaging**Recommendation**

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION**14.1 UN-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

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Trade name: **C-Pep™ Defensyl**

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14.4 Packing group

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

14.5 Environmental hazard**Marine pollutant** No**14.6 Special precautions for user****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

SECTION 15: REGULATORY INFORMATION**15.1 Safe, health and environmental regulations/legislation specific for the substance or mixture****Inventory - United States - Toxic Substances Control Act (TSCA)**

56-81-5 Glycerin

US - FIFRA- Pesticide Product Other Ingredients

Substance is not listed.

OECD - List of High Production Volume Chemicals

Substance is not listed.

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

Substance is not listed.

NOSH - Health Standards – Pesticides

Substance is not listed.

Inventory - Canada - Domestic Substances List (DSL)

56-81-5 Glycerin

Philippines Inventory of Chemicals and Chemical Substances

56-81-5 Glycerin

Inventory of Existing Substance in China (IECSC)

56-81-5 Glycerin

Australian Inventory of Chemical Substances

56-81-5 Glycerin

Japan Existing and New Chemical Substances (ENCS)
56-81-5 Glycerin

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

Not determined

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

Not determined

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