

Safety Data Sheet

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

Trade name: **Tricoll™ 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 | Tricoll™ CC-MB |
| CAS number | 62125-22-8 (and) 65381-09-1 (and) 94891-33-5 (and) 108-32-7 (and) 147732-56-7 |

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 | - | 87.99-94.79% |
| 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 Tripeptide-1 | - | (CAS No.) 147732-56-7 (EC No.) 680-607-0 | - | - | 0.01% |

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 eyes 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 |
|-----------------|---|

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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

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, 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.

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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

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 material cannot be calculated in advance and has therefore to

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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

| | |
|-------------------|------|
| Explosives | Void |
|-------------------|------|

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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 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 Tripeptide-1 CAS:147732-56-7 |
|-----------------------|--|--|---|-------------------------------------|---|
| Acute toxicity | *The available data indicate a | Not Classified | Not Classified | *Based on available data, | Not determined |

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| | | | | | |
|--|--|----------------|----------------|---|--|
| | very low level of acute toxicity for the category members and thus, no hazard for acute oral, inhalation and dermal toxicity was identified. | | | the classification criteria are not met. | |
| 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%) Practically non-irritant (Tricoll™ CC-MB) |
| 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

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

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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 Tripeptide-1 CAS:147732-56-7 |
|--|--|---|---|--|---|
| 12.1 Toxicity Aquatic toxicity | *Danio rerio, LC50: (96H) > 100 mg/L (nominal) Pseudokirchnerie lla subcapitata, EL50: (72H) > 100 mg/L Daphnia magna, EL50: (72H) > 100 mg/L (nominal), (read-across) Daphnia magna, NOELR: (21D) ≥ 1 mg/L Pseudokirchnerie lla 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 properties | The product does not contain substances with endocrine | The product does not contain substances with endocrine | The product does not contain substances with endocrine | The product does not contain substances with endocrine | The product does not contain substances with endocrine |

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| | disrupting properties. | disrupting properties. | disrupting properties. | disrupting properties. | 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

European waste catalogue

Observe federal, state and local environmental regulations.
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.

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

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

SECTION 15: REGULATORY INFORMATION

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

| 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 Tripeptide-1 CAS:147732-56-7 |
|--|--|--|---|-------------------------------------|---|
| 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 | Y |
| 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 (AIC) | Y | Y | N | Y | Y |
| New Zealand Inventory of Chemicals | Y | Y | Y | Y | Y |
| TCSI - Taiwan Chemical Substance Inventory | Y | Y | Y | Y | Y |

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| | | | | | |
|---|---|---|---|---|---|
| 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

LOAEL: Lowest Observed Adverse Effect Level

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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