

Safety Data Sheet

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

Trade name: **Corum 5028**

Version: 6

Revision: 2023.10.06

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

1.1 Product identifier

Trade name	Corum 5028
CAS number	3234-85-3

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
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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

Composition/information on ingredients

Name	Chemical name	Identification	Classification	SCLs, M-Factors	%
COMPONENT					
Myristyl Myristate	Tetradecyl myristate	(CAS No.) 3234-85-3 (EC No.) 221-787-9	Not Classified	-	100%

3.2 Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information	Not determined
After inhalation	Supply fresh air; consult doctor in case of complaints.
After skin contact	Generally the product does not irritate the skin. Immediately rinse with water.
After eye contact	Rinse opened eyes for 15 minutes under running water. If symptoms persist, consult a doctor. Check and remove any contact lenses.
After swallowing	Drink plenty of water and provide fresh air. Call for 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

Note to physicians No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide

Unsuitable extinguishing media

Not determined

5.2 Special hazards arising from the substance or mixture

Not classified as flammable but will burn if involved in a fire.

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5.3 Advice for firefighters

Protective equipment:

Wear protective clothing and glasses.

Wear self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

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).

Dispose of the 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

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

Avoid contact with skin and eyes.

Keep receptacles tightly sealed.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Protect from contacting with light, heat and moisture.

Store in tightly closed container at 25°C.

Incompatible materials

No further relevant information available

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.

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
Face protection

General protective measure

The usual precautionary measures are to be adhered to when handling chemicals

General hygiene measure

The usual precautionary measures are to be adhered to when handling chemicals

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**Environmental exposure
controls**

Not determined

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	Flake to powder
Color	White
Odor	Faint
Odor threshold	Not determined

Property

pH value	Not determined
Melting point/Melting range	38~42°C
Boiling point/Boiling range	Not determined
Flash point	Approx. 220 °C
Flammability (solid, gaseous)	Not applicable
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
Density at 20 °C	Not determined
Vapor density	Not determined
Relative density	Not determined
Evaporation rate	Not applicable
Solubility in/Miscibility with water at 20 °C	Insoluble
Partition coefficient (n-octanol/water at 25 °C)	Not determined
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable
Solvent content	

9.2 Other information

Surface tension	Not determined
Dissociation constant	Not determined
Granulometry	Not determined

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

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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

The product is stable and doesn't react under normal conditions.

10.2 Chemical stability

Stable at environment temperature.

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

Heat, fire, moisture and incompatible substances.

10.5 Incompatible materials

Strong acids

Strong bases

10.6 Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Name	Myristyl Myristate CAS:3234-85-3
<p>Acute toxicity LD/LC50 values relevant for classification</p>	<p>*All available acute oral toxicity studies within this category resulted in an acute oral LD50 > 2000 mg/kg bw. *All available acute dermal toxicity studies within the category resulted in acute dermal LD50 > 2000 mg/kg bw. *All available acute inhalation toxicity studies within the category resulted in acute inhalation LC50 > 5.0 mg/L air. The available data on acute toxicity do not meet the classification criteria according to Regulation (EC) 1272/2008 or Directive 67/548/EEC, and are therefore conclusive but not sufficient for classification.</p>

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Skin corrosion/irritation	*All available studies on skin and eye irritation showed no irritating potential of the category members.
Serious eye damage/irritation	*No adverse effect observed (not irritating)
Respiratory tract	Not determined
Respiratory/skin sensitization	*No adverse effect observed (not sensitising) Based on available data, the classification criteria are not met.
Toxicokinetics, metabolism and distribution	Not determined
Repeated dose toxicity	Based on the group concept, the available data on repeated dose toxicity do not meet the classification criteria according to Regulation (EC) 1272/2008 or Directive 67/548/EEC, and are therefore conclusive but not sufficient for classification.
Germ Cell mutagenicity	Based on the group concept, the available data on genetic toxicity do not meet the classification criteria according to Regulation (EC) 1272/2008 or Directive 67/548/EEC, and are therefore conclusive but not sufficient for classification.
Carcinogenicity	There is no evidence that Long Chain Aliphatic Esters cause carcinogenicity by a direct genotoxic mechanism, as the results of all genotoxicity studies were negative.
Reproductive toxicity	Based on the group concept, the available data on toxicity to reproduction and development do not meet the classification criteria according to Regulation (EC) 1272/2008 or Directive 67/548/EEC, and are therefore conclusive but not sufficient for classification.
STOT-single exposure	Not determined
STOT-repeated exposure	Not determined
Aspiration hazard	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	Myristyl Myristate CAS:3234-85-3
12.1 Toxicity Aquatic toxicity	*No effects on aquatic organisms were observed in the available studies for the LCAE category members on any of the three trophic levels (fish, daphnia, algae) for substances within the category up to the limit of water solubility, neither in the short-term toxicity tests nor in long-term tests with daphnia.
12.2 Persistence and degradability	*Rapidly degraded by microorganisms in both the aquatic and terrestrial environments.
12.3 Bioaccumulative potential	*Bioaccumulation potential of the LCAE category members is low.
12.4 Mobility in soil	No further relevant information available.
12.5 Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
12.6 Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	No further relevant information available.

*from ECHA webpage registration data

SECTION 13: DISPOSAL CONSIDERATIONS

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13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.
European waste catalogue Not applicable

13.2 Uncleaning packaging

Recommendation Disposal must be made according to official regulations.

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

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	Myristyl Myristate
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Inventory - United States - Toxic Substances Control Act (TSCA)	Y
Inventory - Canada - Domestic Substances List (DSL)	Y
Inventory - Canada Non-Domestic Substances List (NDSL)	N
ECHA Inventory of substances	Y
Japan Existing and New Chemical Substances (ENCS)	Y
Inventory of Existing Chemical Substances in China (IECSC)	Y
Korean Existing and Evaluated Chemical Substances (KECL)	Y
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Y
Australian Inventory of Industrial Chemicals (AIIC)	Y
New Zealand Inventory of Chemicals	N
TCSI - Taiwan Chemical Substance Inventory	Y
OECD - List of High Production Volume Chemicals	Y

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.

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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