

# Safety Data Sheet

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.06.02

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

### 1.1 Product identifier

Trade name	Corum 9230
CAS number	2216-51-5 (and) 59259-38-0

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

<b>Recommended Use</b>	Used in the formulation of cosmetics and personal care products Skin cosmetics Cosmetic auxiliary Cosmetic Active Agent
<b>Uses advised against</b>	No information available
<b>Product category</b>	Not determined
<b>Process category</b>	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](mailto:marketing.support@corum.com.tw)

### 1.4 Emergency telephone number

<b>Company phone number</b>	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**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

**Label according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.

#### **Hazard Pictograms**



GHS07

#### **Signal word**

Warning

#### **Hazard statements**

H315 causes skin irritation.  
H319 causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P280

Wear protective gloves/protective clothing/eye protection/face

Page 1 / 11

# Safety Data Sheet

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.06.02

P264	protection.
P273	Wash thoroughly after handling.
P302+P352	Avoid release to the environment.
P305+P351+P338	If on skin: wash with plenty of water
	If in eyes: rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.

## 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.

## 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	Concentration (% w/w)
Menthol	L-menthol	(CAS No.) 2216-51-5 (EC No.) 218-690-9	Skin Irrit. 2 H315 Eye Irrit. 2 H319	-	50-70%
Menthyl Lactate	[1R-[1alpha(R*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate	(CAS No.) 59259-38-0 (EC No.) 261-678-3	Aquatic Chronic 3 H412	-	30-50%

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General information

No data available.

#### After inhalation

Supply fresh air; consult doctor in case of complaints.

#### After skin contact

Remove contaminated clothing, contaminated footwear and dispose of safely. Wash off immediately with plenty of water for at least 15 minutes. If skin irritation continues, consult a doctor.

#### After eye contact

Protect unharmed eye  
Check for and remove any contact lenses

# Safety Data Sheet

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.06.02

Wash immediately and abundantly with running water for at least 15 minutes, keeping eyes open. In case the eyes are injured, or in case there is irritation, seek for medical advice/treatment.

## **After swallowing**

Do not give anything by mouth to an unconscious person. If the person is conscious, clean mouth with water and drink afterwards 2-4 glasses of water. Prevent vomiting if possible. If a person is vomiting while laying on his back, place him in the recovery position (turned onto his side). Seek medical advice.

## **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**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Unsuitable extinguishing media**

High volume water jet.

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

No further relevant information available.

### **5.3 Advice for firefighters**

#### **Protective equipment:**

Wear self-contained breathing apparatus with facepiece.

Additional information

In the event of fire and/or explosion do not breathe fumes.

Cool fire exposed containers with water spray from a protected location.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Put on appropriate personal protective equipment.

### **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 contaminated material as waste according to item 13.

### **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

**Safety Data Sheet**

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.06.02

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. Put on appropriate personal protective equipment.

**Information about fire - and explosion protection:**

No special measures required.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage conditions**

Store in a cool, dry place.

**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 any relevant quantities of materials with critical values that have to be monitored at the workplace.

**DNEL**

Not determined.

**PNEC**

Not determined.

**Additional information**

The limits lists that are valid 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**

# Safety Data Sheet

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.06.02

## 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 can not 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

Colourless APHA: <100

#### Odor

Faintly mint

#### Odor threshold

Not determined

#### Property

#### pH value (5%)

Not determined

#### Melting point/Melting range

41,2 - 41,7 °C at 1013 hPa for ingredient L-menthol

Not determined

#### Boiling point/Boiling range

212 °C at 1 atm for ingredient L-menthol

Not determined

#### Flash point

94 °C at 102 kPa for ingredient L-menthol

Not determined

#### 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

# Safety Data Sheet

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.06.02

Upper	Not determined
Oxidizing properties	Not determined
Explosive properties	Not determined
Vapor pressure	19 Pa at 25 °C for ingredient L-menthol
	Not determined
Vapor density	Not determined
Relative density	Not determined
Evaporation rate	Not determined
Solubility	Not miscible or difficult to mix. 0.397 g/L at 20 °C (OECD 105) for ingredient L-Menthol
Partition coefficient (n-octanol/water at 25 °C)	Not determined log Pow= 3,15 (25 °C) for ingredient L-menthol
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
<b>Flammable Gases and Chemically Unstable Gases</b>	Void
<b>Flammable Aerosols</b>	Void
<b>Oxidising Gases</b>	Void
<b>Gases Under Pressure</b>	Void
<b>Flammable Liquids</b>	Void
<b>Flammable Solids</b>	Void
<b>Self-reactive Substances and Mixtures</b>	Void
<b>Pyrophoric Liquids</b>	Void
<b>Pyrophoric Solids</b>	Void
<b>Self-heating Substances and Mixtures</b>	Void
<b>Substances and Mixtures which in contact with water emit flammable gases</b>	Void
<b>Oxidising Liquids</b>	Void
<b>Oxidising Solids</b>	Void
<b>Organic Peroxides</b>	Void
<b>Substances and Mixtures corrosive to Metals</b>	Void
<b>Desensitized Explosives</b>	Void

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No further relevant information available.

### 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.

# Safety Data Sheet

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.06.02

## 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

#### Acute toxicity

LD/LC50 values relevant for classification

2216-51-5 L-menthol

	Effect dose/concentration	Value	Species
Acute oral toxicity	LD50	3400 mg/kg bw	mouse
Acute oral toxicity	LD50	3300 mg/kg bw	rat

#### Primary Irritant effect

##### **Skin corrosion/irritation**

Human Occlusive Single Patch Test, tested at 2% dilution, 48 hours: non-irritant  
Non diluted product: causes skin irritation.

##### **Serious eye damage/irritation**

HET-CAM Test (in vitro), dilution at 2%: slightly irritant  
Non diluted product: causes serious eye irritation.

##### **Respiratory tract**

Not determined

##### **Respiratory/skin sensitization**

Not determined

#### Additional toxicological information

##### **Toxicokinetics, metabolism and distribution**

Not determined

##### **Repeated dose toxicity**

2216-51-5 L-menthol			
	Effect dose/concentration	Value	Species
Oral toxicity	NOAEL Rep. Dose	200 mg/kg bw/d	Rat Feed, 5,5 weeks (highest tested dose)

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

##### **Germ Cell mutagenicity**

2216-51-5 L-menthol	
AMES Test	Negative (bacteria) (Bacterial reverse mutation (E. coli WP2 uvrA (trp)))

##### **Carcinogenicity**

Not determined

##### **Reproductive toxicity**

Not determined

##### **STOT-single exposure**

Not determined

##### **STOT-repeated exposure**

Not determined

## Safety Data Sheet

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

Trade name: Corum 9230

Version: 4

Revision: 2023.06.02

Aspiration hazard Not determined

11.2 Information on other hazards

Endocrine disrupting properties Substance is not listed

## SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

## Aquatic toxicity

## 2216-51-5 L-menthol

Effect dose/concentration	Value	Species	Method
LD50/96h	15.6mg/l	Branchydanio rerio	OECD 203
EC50	237 mg/l	Micro-organisms	OECD 209
EC50/48h (static)	26.6mg/l	Daphnia	Static
EC50/96h	18.4 mg/l	Pimephales promelas	Flow-through
NOEC/72h	9.65 mg/l	Scenedesmus subspicatus	OECD 201

## 59259-38-0 [1R-[1alpha(R\*),2β,5alpha]]-5-methyl-2-(1 -methylethyl)cyclohexyl lactate

Effect dose/concentration	Value	Species	Method
LC50	6.632 mg/l	Fish	ECOSAR v.0.99g prediction
EC50	10.944 mg/l	Daphnia	ECOSAR v.0.99g prediction

12.2 Persistence and degradability

The components are ready biodegradable, the mixture is also expected to be ready biodegradable.

12.3 Bioaccumulative potential

Low potential expected, based on the components tests and ECOSAR predictions.

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

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

## Recommendation

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

European waste catalogue  
HP4

Irritant - skin irritation and eye damage



# Safety Data Sheet

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.06.02

HP14

Ecotoxic

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	
UN "Model Regulation"	Void

### 14.8 ICAO/IATA – DGR

Not regulated as dangerous good

### 14.9 Maritime transport in bulk according to

IMO instruments	Not applicable
-----------------	----------------

## 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)  
2216-51-5 L-menthol

**Inventory - Canada - Domestic Substances List (DSL)**

2216-51-5 L-menthol

59259-38-0 [1R-[1alpha(R\*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate

**Inventory - Canada Non-Domestic Substances List (NDSL)**

Substance is not listed

**European Inventory of Existing Chemical Substances (EINECS)**

2216-51-5 L-menthol

59259-38-0 [1R-[1alpha(R\*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate

**Japan Existing and New Chemical Substances (ENCS)**

2216-51-5 L-menthol

59259-38-0 [1R-[1alpha(R\*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate

**Inventory of Existing Chemical Substances in China (IECSC)**

2216-51-5 L-menthol

59259-38-0 [1R-[1alpha(R\*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate

**Inventory - Korea - Existing and Evaluated Chemical Substances (KECL)**

2216-51-5 L-menthol

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)**

2216-51-5 L-menthol

59259-38-0 [1R-[1alpha(R\*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate

**Australian Inventory of Industrial Chemicals (AIIC)**

2216-51-5 L-menthol

59259-38-0 [1R-[1alpha(R\*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate

**New Zealand Inventory of Chemicals**

2216-51-5 L-menthol

59259-38-0 [1R-[1alpha(R\*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate

**TCSI - Taiwan Chemical Substance Inventory**

2216-51-5 L-menthol

59259-38-0 [1R-[1alpha(R\*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate

**OECD - List of High Production Volume Chemicals**

Substance is not listed

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

Substance is not listed

**REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3****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

# Safety Data Sheet

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.06.02

## 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 (Ozonedepleting 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)

Not determined

## 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.

## Abbreviations and acronyms

GHS: Globally Harmonized System of Classification and Labeling Chemicals

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

EC50: Effective Concentration 50%

NOEC: No observed effect concentration

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.