

# Safety Data Sheet

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

Trade name: **Corum 9230**

Version: 4

Revision: 2023.10.16

## 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

**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**  
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.

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## Precautionary statements

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P264

Wash thoroughly after handling.

P273

Avoid release to the environment.

P302+P352

If on skin: wash with plenty of water

P305+P351+P338

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	%
<b>COMPONENT</b>					
<b>Menthol</b>	L-menthol	(CAS No.) 2216-51-5 (EC No.) 218-690-9	Skin Irrit. 2 H315 Eye Irrit. 2 H319	-	50-70%
<b>Menthyl Lactate</b>	[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

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Check for and remove any contact lenses.  
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.

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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

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**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**

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<b>Lower</b>	Not determined
<b>Upper</b>	Not determined
<b>Oxidizing properties</b>	Not determined
<b>Explosive properties</b>	Not determined
<b>Vapor pressure</b>	19 Pa at 25 °C for ingredient L-menthol
<b>Vapor density</b>	Not determined
<b>Relative density</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Solubility</b>	Not miscible or difficult to mix. 0.397 g/L at 20 °C (OECD 105) for ingredient L-Menthol
<b>Partition coefficient (n-octanol/water at 25 °C)</b>	Not determined log Pow= 3,15 (25 °C) for ingredient L-menthol
<b>Kinematic Viscosity</b>	Not applicable
<b>Dynamic Viscosity</b>	Not applicable

## 9.2 Other information

<b>Surface tension</b>	Not applicable
<b>Dissociation constant</b>	Not applicable
<b>Granulometry</b>	Not applicable

### Information with regard to physical hazard classes

<b>Explosives</b>	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.

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## 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	Menthol CAS:2216-51-5	Menthyl Lactate CAS:59259-38-0
<b>Acute toxicity</b>	<p>*Low acute toxicity for oral route (LD50 &gt;2000 mg/kg bw).                      *Low acute toxicity dermal (LD50 &gt;5000 mg/kg bw)                      *Low acute toxicity inhalative (LC50 (aerosol, 4h) 5289 mg/m3)                      The substance does not meet the criteria for classification and labelling for this endpoint (STOT single exposure) as set out in Regulation (EC) No. 1272/2008 as no indications were observed in acute animal studies.</p>	Not determined
<b>Skin corrosion/irritation</b>	<p>*Skin Irrit. 2                      Non-irritant (dilution at 2%)                      Non diluted product: causes skin irritation.</p>	Not determined
<b>Serious eye damage/irritation</b>	<p>*Eye Irrit. 2                      Slightly irritant (dilution at 2% in water)                      Non diluted product: causes serious eye irritation.</p>	Not determined
<b>Respiratory tract</b>	Not determined	Not determined
<b>Respiratory/skin sensitization</b>	No adverse effect observed (not sensitising)	Not determined
<b>Toxicokinetics, metabolism and distribution</b>	Not determined	Not determined
<b>Repeated dose toxicity</b>	<p>The substance does not meet the criteria for classification and labeling for carcinogenicity or repeated dose toxicity (STOT), as set out in Regulation (EC) NO. 1272/2008 or in Directive 67/548/EEC respectively as indicated by study results on DL Menthol used for read across.</p>	Not determined

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<b>Germ Cell mutagenicity</b>	Non mutagenic/non promutagenic (Pure Corum 9230) *Weighing all available information dealing with the genetic toxicity of L Menthol we assume that L Menthol does not need to be classified for this endpoint.	Not determined
<b>Carcinogenicity</b>	No adverse effect observed	Not determined
<b>Reproductive toxicity</b>	The substance should therefore not be classified either on reproduction toxicity or teratogenicity.	Not determined
<b>STOT-single exposure</b>	Not determined	Not determined
<b>STOT-repeated exposure</b>	Not determined	Not determined
<b>Aspiration hazard</b>	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	Menthol CAS:2216-51-5	Menthyl Lactate CAS:59259-38-0
<b>12.1 Toxicity</b> Aquatic toxicity	*The experimental short-term ecotoxicological data are available for the following aquatic species : Fish : LC50 at 96h = 15.6 mg/l Daphnia : EC50 at 48h = 26.6 mg/l Algae : EC50 at 72h = 21.4 mg/l with a NOEC = 9.65 mg/l Microorganisms (activated sludge bacteria): IC50 at 96h = 237 mg/l *There are no long term toxicity data on aquatic species or on terrestrial species available. *PNECs are based on the available acute toxicity data with the related assessment factor.	*H412 Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.
<b>12.2 Persistence and degradability</b>	*The substance can be regarded as readily biodegradable.	No further relevant information available.
<b>12.3 Bioaccumulative potential</b>	*The substance has no bioaccumulation potential and does not meet the criteria of "B" or "vB" under REACH.	No further relevant information available.
<b>12.4 Mobility in soil</b>	No further relevant information available.	No further relevant information available.
<b>12.5 Results of PBT and vPvB assessment</b>	<b>PBT:</b> Not applicable <b>vPvB:</b> Not applicable	<b>PBT:</b> Not applicable <b>vPvB:</b> Not applicable
<b>12.6 Endocrine disrupting</b>	The product does not contain	The product does not contain



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properties	substances with endocrine disrupting properties.	substances with endocrine disrupting properties.
<b>12.7 Other adverse effects</b>	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**

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

**European waste catalogue**

**HP4**

Irritant - skin irritation and eye damage

**HP14**

Ecotoxic

### 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

**UN "Model Regulation"**

Void

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**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

Name	Menthol 2216-51-5	Menthyl Lactate 59259-38-0
Inventory - United States - Toxic Substances Control Act (TSCA)	Y	N
Inventory - Canada - Domestic Substances List (DSL)	Y	Y
Inventory - Canada Non-Domestic Substances List (NDSL)	N	N
ECHA Inventory of substances	Y	Y
Japan Existing and New Chemical Substances (ENCS)	Y	Y
Inventory of Existing Chemical Substances in China (IECSC)	Y	Y
Korean Existing and Evaluated Chemical Substances (KECL)	Y	N
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Y	Y
Australian Inventory of Industrial Chemicals (AIIIC)	Y	Y
New Zealand Inventory of Chemicals	Y	Y
TCSI - Taiwan Chemical Substance Inventory	Y	Y
OECD - List of High Production Volume Chemicals	N	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

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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.

### 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.