

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

Recommended Use	Used in the formulation of cosmetics and personal care products Skin cosmetics Cosmetic auxiliary Cosmetic Active Agent
Uses advised against	No information available
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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

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

Precautionary statements

P280

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

P264

Wash thoroughly after handling.

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.

P362

Take off contaminated clothing.

P332+P313

If skin irritation occurs: Get medical advice/attention.

P337+P313

If eye irritation persists: Get medical advice/attention.

2.3 Other hazards**Results of PBT and vPvB assessment**

Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Chemical characterization: Mixture****3.2 Composition/information on ingredients**

Chemical Name	CAS No.	EC No.
L-menthol	2216-51-5	218-690-9
⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319		
[1R-[1alpha(R*),2beta,5alpha]]-5-methyl-2-(1-methylethyl) cyclohexyl lactate	59259-38-0	261-678-3

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 contactProtect unharmed eye
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 advise/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

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.

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.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in tightly closed containers
Store in a cool, dry, well-ventilated area, away from incompatible substances
To maintain product quality, do not store in heat or direct sunlight

Incompatible materials

None known based on information supplied.

Storage class (VbF)

No

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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

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 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
<u>Property</u>	
pH value (5%)	Not determined
Melting point/Melting range	41,2 - 41,7 °C at 1013 hPa for ingredient L-menthol
Boiling point/Boiling range	Not determined
	212 °C at 1 atm for ingredient L-menthol
Flash point	Not determined
	94 °C at 102 kPa for ingredient L-menthol
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	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 <u>Other information</u>	
Surface tension	Not applicable
Dissociation constant	Not applicable
Granulometry	Not applicable

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.

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

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 17.09.2019

Version: 2

Revision: 17.09.2019

Trade name: **Corum 9230****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

Aspiration hazard

Not determined

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

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 17.09.2019

Version: 2

Revision: 17.09.2019

Trade name: **Corum 9230**

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*),2beta,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

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

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 <u>Transport hazard class(es)</u>	
ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable
14.4 <u>Packing group</u>	
ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable
14.5 <u>Environmental hazard</u>	
Marine pollutant	No
14.6 <u>Special precautions for user</u>	
Special precaution for user	Not applicable
14.7 <u>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</u>	
Not applicable	
UN "Model Regulation"	Void

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 is listed.

Canada Domestic Substances List (DSL)

2216-51-5 L-menthol is listed.

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

Canada Non-Domestic Substances List (NDSL)

Substance is not listed.

European Inventory of Existing Chemical Substances (EINECS)

2216-51-5 L-menthol is listed.

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 is listed.

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

China Inventory of Existing Chemical Substance (IECSC)

2216-51-5 L-menthol is listed.

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

Korean Existing and Evaluated Chemical Substances (KECL)

2216-51-5 L-menthol is listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

2216-51-5 L-menthol is listed.

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

Australian Inventory of Chemical Substances (AICS)

2216-51-5 L-menthol is listed.

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

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

Not determined

Substances of very high concern (SVHC) according to REACH, Article 57

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

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.