Safety Data Sheet

according to 1907/2006/EC, Article 31

Trade name: **Corum 9230** Version: 3 Revision: 30.06.2021

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 serval 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 Skin Irrit. 2, H315; Eye Irrit. 2, H319	2216-51-5	218-690-9
[1R-[1alpha(R*),2ß,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 contact Protect 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 handing.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING ANDSTORAGE

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 a cool, dry place.

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: EXPOSURECONTROLS/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 googles.
General protective measure	Avoid contact with the eyes and skin
General hygiene measure	The usual precautionary measures are to be adhered to when handing 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
Oder threshold	Not determined

Property	
pH value (5%)	Not determined
Melting point/Melting range	41,2 - 41,7 ºC at 1013 hPa for ingredient L-menthol Not determined
Boiling point/Boiling range	212 ºC at 1 atm for ingredient L-menthol Not determined
Flash point	94 ºC 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
Upper	Not determined
Oxidizing properties	Not determined
Explosive properties	Not determined
Vapor pressure	19 Pa at 25 ºC 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 ºC (OECD 105) for ingredient L-Menthol
Partition coefficient (n-octanol/water at 25 °C)	Not determined log Pow= 3,15 (25 ºC) 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

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 handing.

10.5 Incompatible materials
See Section 7 for information on safe handing.

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 (carcinogenity, 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
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*),2ß,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 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

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*),2ß,5alpha]]-5-methyl-2-(1 -methylethyl) cyclohexyl lactate.

Canada Non-Domestic Substances List (NDSL)
Substances are not listed.

European Inventory of Existing Chemical Substances (EINECS)
2216-51-5 L-menthol is listed.
59259-38-0 [1R-[1alpha(R*),2ß,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*),2ß,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*),2ß,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*),2ß,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*),2ß,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.