

Safety Data Sheet

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

Trade name: **VivGlow™ Opal**

Version: 7

Revision: 2023.11.27

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

1.1 Product identifier

Trade name VivGlow™ Opal
CAS number 83615-24-1 (and) 910-31-6 (and) 1182-66-7 (and) 68611-44-9

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

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

Warning, substance not yet fully tested.
May cause eye irritation.

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

Not applicable

3.2 Mixtures

Composition/information on ingredients

Name	Chemical name	Identification	Classification	SCLs, M-Factors	%
COMPONENT					
Cholesteryl isostearate	-	(CAS No.) 83615-24-1 (EC No.) -	-	-	40-55%
Cholesteryl chloride	3-β-chlorocholest-5-ene	(CAS No.) 910-31-6 (EC No.) 213-004-4	Not Classified	-	20-30%
Cholesteryl nonanoate	Cholest-5-ene-3-beta-yl nonanoate	(CAS No.) 1182-66-7 (EC No.) 214-658-3	Not Classified	-	20-30%
Silica dimethyl silylate	Silane, dichlorodimethyl-, reaction products with silica	(CAS No.) 68611-44-9 (EC No.) 271-893-4	Not Classified	-	0.20%

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures**General information**

No special measures required.

After inhalation

Supply fresh air; consult a doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly. Seek medical advice if irritation occurs.

After eye contact

Immediately rinse opened eyes with running water for at least 20 minutes. Seek medical attention.

After swallowing

Do not induce vomiting. If the person is conscious, give small quantities of water to drink. Do not give anything by mouth to an unconscious person. Seek medical treatment.

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

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Note to physicians

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Foam, dry chemical powder, carbon dioxide and water spray.

Unsuitable extinguishing media

Not determined

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Carbon monoxide (CO) and Carbon dioxide (CO₂).

5.3 Advice for firefighters

Protective equipment:

Wear breathing apparatus plus protective gloves.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Non-emergency personnel:

Put on appropriate personal protective equipment.

Personal Protection Equipment for Emergency Responders:

Remove persons from danger area.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water.

Dispose according to local or international regulations.

6.3 Methods and material for containment and cleaning up

Pick up mechanically using appropriate tools.

Avoid raising dust.

Collect spilled product by suitable means. Transfer collected product and other contaminated materials to suitable tanks or containers for recycling, recovery or safe disposal.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

SECTION 7: HANDLING AND STORAGE

7.1 Precaution for safe handling

Advice on safe handling

Avoid ingestion, inhalation, skin and eye contact.

Minimize dust generation and accumulation.

Handle in accordance with good industrial hygiene practice and any legal requirements.

Information about fire - and explosion protection:

No special measures required.

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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Suitable container: Lined metal can/pail Store in tightly closed packings. Check all containers are clearly labelled and free from leaks. Storage temperature: 25-30 °C
Incompatible materials	Avoid reaction with strong acid, alkali and oxidizing agents.
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)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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.
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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.

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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

Safety glasses
Alternatively, face shield protection

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.
Appropriate engineering controls to avoid dust in air.

Environmental exposure controls

Not determined

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Fatty crystalline
Appearance	Fatty crystalline
Color	Holographic
Odor	Faint
Odor threshold	Not determined

Property

pH value (5%)	Not determined
Melting point/Melting range	Not determined
Boiling point/Boiling range	Not determined
Flash point	Not applicable
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	Not determined
Vapor density	Not determined
Relative density	Not determined
Evaporation rate	Not determined
Solubility	Not determined
Partition coefficient (n-octanol/water at 25 °C)	Not determined
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable

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9.2 Other information

Surface tension	Not determined
Dissociation constant	Not determined
Granulometry	Not determined
Molecular weight	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
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

Not determined

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

No further relevant information available.

10.5 Incompatible materials

Strong oxidizing agents

Strong acids

Strong bases

10.6 Hazardous decomposition products

Thermal decomposition products: carbon monoxide, carbon dioxide.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Name	Cholesteryl isostearate CAS:83615-24-1	Cholesteryl chloride CAS:910-31-6	Cholesteryl nonanoate CAS:1182-66-7	Silica dimethyl silylate CAS:68611-44-9
Acute toxicity	Not determined	Not Classified	Not Classified	Not Classified
Skin corrosion/irritation	Not determined	Not Classified	Not Classified	Not Classified
Serious eye damage/irritation	Not determined	Not Classified	Not Classified	Not Classified
Respiratory tract	Not determined	Not Classified	Not Classified	Not Classified
Respiratory/skin sensitization	Not determined	Not Classified	Not Classified	Not Classified
Toxicokinetics, metabolism and distribution	Not determined	Not Classified	Not Classified	Not Classified
Repeated dose toxicity	Not determined	Not Classified	Not Classified	Not Classified
Germ Cell mutagenicity	Not determined	Not Classified	Not Classified	Not Classified
Carcinogenicity	Not determined	Not Classified	Not Classified	Not Classified
Reproductive toxicity	Not determined	Not Classified	Not Classified	Not Classified
STOT-single exposure	Not determined	Not Classified	Not Classified	Not Classified
STOT-repeated exposure	Not determined	Not Classified	Not Classified	Not Classified
Aspiration hazard	Not determined	Not Classified	Not Classified	Not Classified

*from ECHA webpage registration data

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.2 Information on other hazards

Endocrine disrupting properties Substance is not listed.

SECTION 12: ECOLOGICAL INFORMATION

Name	Cholesteryl isostearate CAS:83615-24-1	Cholesteryl chloride CAS:910-31-6	Cholesteryl nonanoate CAS:1182-66-7	Silica dimethyl silylate CAS:68611-44-9
12.1 Toxicity Aquatic toxicity	No further relevant information available.	No further relevant information available.	No further relevant information available.	No further relevant information available.
12.2 Persistence and degradability	No further relevant information available.	No further relevant information available.	No further relevant information available.	No further relevant information available.
12.3 Bioaccumulative potential	No further relevant information available.	No further relevant information available.	No further relevant information available.	No further relevant information available.
12.4 Mobility in soil	No further relevant information available.	No further relevant information available.	No further relevant information available.	No further relevant information available.
12.5 Results of PBT and vPvB assessment	PBT: Not applicable vPvB:	PBT: Not applicable vPvB:	PBT: Not applicable vPvB:	PBT: Not applicable vPvB:

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	Not applicable	Not applicable	Not applicable	Not applicable
12.6 Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.	The product does not contain substances with endocrine disrupting properties.	The product does not contain substances with endocrine disrupting properties.	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	No further relevant information available.	No further relevant information available.	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

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

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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	Cholesteryl isostearate CAS:83615-24-1	Cholesteryl chloride CAS:910-31-6	Cholesteryl nonanoate CAS:1182-66-7	Silica dimethyl silylate CAS:68611-44-9
Inventory - United States - Toxic Substances Control Act (TSCA)	N	Y	Y	Y
Inventory - Canada - Domestic Substances List (DSL)	N	Y	Y	Y
Inventory - Canada - Non-Domestic Substances List (NDSL)	N	N	N	N
Inventory - Canada - Revised In Commerce List (R-ICL)	N	N	N	N
ECHA Inventory of substances	N	Y	Y	Y
Japan Existing and New Chemical Substances (ENCS)	N	Y	Y	N
Inventory of Existing Chemical Substances in China (IECSC)	Y	Y	Y	Y
Korean Existing and Evaluated Chemical Substances (KECL)	N	N	Y	Y
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	N	N	N	Y
Australian Inventory of Industrial Chemicals (AIIIC)	N	Y	Y	Y
New Zealand Inventory of Chemicals	Y	N	Y	Y

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TCSI - Taiwan Chemical Substance Inventory	Y	Y	Y	Y
OECD - List of High Production Volume Chemicals	N	N	N	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.

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

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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