

Safety Data Sheet

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

Trade name: **VivGlow™ Opal**

Version: 7

Revision: 2023.05.17

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:

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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)
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.

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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

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

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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.

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.

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

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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.

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

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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

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

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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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification

Not determined

Primary Irritant effect

Skin corrosion/irritation

None of the components is classified as skin irritant.

Serious eye damage/irritation

May cause eye irritation.

Respiratory tract

Not determined

Respiratory/skin sensitization

Not determined

Toxicokinetics, metabolism and distribution

Not determined

Repeated dose toxicity

Not determined

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ Cell mutagenicity

Not determined

Carcinogenicity

Not determined

Reproductive toxicity

Not determined

STOT-single exposure

Not determined

STOT-repeated exposure

Not determined

Aspiration hazard

Not determined

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

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12.1 Toxicity

Aquatic toxicity

No further relevant information available

12.2 Persistence and degradability

No further relevant information available

12.3 Bioaccumulative potential

No further relevant information available

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.

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

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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
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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

Inventory - United States - Toxic Substances Control Act (TSCA)

910-31-6 Cholesteryl chloride
 1182-66-7 Cholesteryl nonanoate
 68611-44-9 Silica dimethyl silylate

Inventory - Canada Domestic Substances List (DSL)

910-31-6 Cholesteryl chloride
 1182-66-7 Cholesteryl nonanoate
 68611-44-9 Silica dimethyl silylate

Inventory - Canada Non-Domestic Substances List (NDSL)

Substance is not listed

European Inventory of Existing Chemical Substances (EINECS)

910-31-6 Cholesteryl chloride
 1182-66-7 Cholesteryl nonanoate
 68611-44-9 Silica dimethyl silylate

Japan Existing and New Chemical Substances (ENCS)

910-31-6 Cholesteryl chloride

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1182-66-7 Cholesteryl nonanoate

Inventory of Existing Chemical Substances in China (IECSC)

83615-24-1 Cholesteryl isostearate

910-31-6 Cholesteryl chloride

1182-66-7 Cholesteryl nonanoate

68611-44-9 Silica dimethyl silylate

Inventory - Korean Existing and Evaluated Chemical Substances (KECL)

1182-66-7 Cholesteryl nonanoate

68611-44-9 Silica dimethyl silylate

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

68611-44-9 Silica dimethyl silylate

Australian Inventory of Industrial Chemicals (AIIC)

910-31-6 Cholesteryl chloride

1182-66-7 Cholesteryl nonanoate

68611-44-9 Silica dimethyl silylate

New Zealand Inventory of Chemicals

83615-24-1 Cholesteryl isostearate

1182-66-7 Cholesteryl nonanoate

68611-44-9 Silica dimethyl silylate

TCSI - Taiwan Chemical Substance Inventory

83615-24-1 Cholesteryl isostearate

910-31-6 Cholesteryl chloride

1182-66-7 Cholesteryl nonanoate

68611-44-9 Silica dimethyl silylate

OECD - List of High Production Volume Chemicals

68611-44-9 Silica dimethyl silylate

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

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 (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

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Abbreviations and acronyms

NOAEL: Non Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

NOEC: No Observed Effect Concentration

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