

# Safety Data Sheet

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

Trade name: **VivGlow™ Iris**

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™ Iris**

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](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**

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 (CO<sub>2</sub>)

### 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

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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.

**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

<b>Physical State</b>	Fatty crystalline
<b>Appearance</b>	Fatty crystalline
<b>Color</b>	Holographic
<b>Odor</b>	Faint
<b>Odor threshold</b>	Not determined

#### Property

<b>pH value (5%)</b>	Not determined
<b>Melting point/Melting range</b>	Not determined
<b>Boiling point/Boiling range</b>	Not determined
<b>Flash point</b>	Not applicable
<b>Flammability (solid, gaseous)</b>	Not determined
<b>Ignition temperature</b>	Not determined
<b>Decomposition temperature</b>	Not determined
<b>Self-igniting</b>	Not determined
<b>Danger of explosion</b>	Product does not present an explosion hazard.
<b>Explosion limit</b>	
<b>Lower</b>	Not determined

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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

## 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
<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

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

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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

## 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.

#### 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



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**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

**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

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## Japan Existing and New Chemical Substances (ENCS)

910-31-6 Cholesteryl chloride

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

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**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 (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