SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006, as amended by Commission Regulation (EU) 2020/878

VERSAL BLUE LBS 01

Date of publication: 01/06/2007
Date of revision: 04/10/2022 *Revision:* 6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: VERSAL BLUE LBS 01
REACH registration number: see section 3

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

Organic pigment for industrial process

1.2.2 Uses advised against

Tattoo inks

1.3 Details of the supplier of the safety data sheet

Synthesia, a.s.
Semtín 103
530 02 Pardubice
Czech Republic

Telephone: + 420 466 821 111
Fax: + 420 466 821 020
E-mail: synthesia@synthesia.eu

E-mail address of competent person: sds@synthesia.cz
Ecological and Toxicological Association of Dyes and Organic Pigments Manufacturers (ETAD)

1.4 Emergency telephone number

Manufacturer:
Telephone: +420 466 824 402
Fax: +420 466 824 448

Poison Center:
Toxikologické informační středisko, Na Bojišti 1, 120 00 Praha 2, Czech Republic
Telephone: +420 224 919 293, +420 224 915 402

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product does not meet the criteria for classification as hazardous according to Regulation (EC) No 1272/2008.

2.2 Label elements

The product does not meet the criteria for classification as hazardous according to Regulation (EC) No 1272/2008.

2.3 Other hazards

Dust/air mixture can be explosive.

SECTION 3: Composition/information on ingredients

Cu-PHTHALOCYANINE PIGMENT

3.1 Substances

Chemical name			
Index number CAS number EC number REACH registration number	Content [wt. %]	Classification according to Regulation (EC) No 1272/2008	Specific concentration limit, multiplying factor, acute toxicity estimate
Pigment Blue 15:3			
- 147-14-8 205-685-1 01-2119458771-32-XXXX	≥ 99		

3.2 Mixtures

-

Particle characteristics:

Name of (set of) nanoform(s)	Pigment Blue 15:3	
		Value
Number based particle size distribution [nm]	d10	19
	d50	27
	d90	43
Shape and aspect ratio of particles		Elongated (3.2 - 6.3), Platelets (1.8 - 2.6)
Crystallinity		crystalline
Surface functionalisation/treatment	agent(s)	irrelevant
	process	irrelevant
Specific surface area [m^2/g]		45.4 - 60.5
Additional information		irrelevant

SECTION 4: First aid measures

4.1 Description of first aid measures

Do not breathe dust.
Avoid contact with skin and eyes.
If you feel unwell, seek medical advice.
In case of accident by inhalation: remove casualty to fresh air and keep at rest.
In case of contact with eyes, rinse immediately with plenty of water.

4.1.1 Following inhalation

In case of accident by inhalation: Remove casualty to fresh air and keep at rest

4.1.2 Following skin contact

Avoid contact with skin. Wash the contaminated parts with plenty of water.

4.1.3 Following eye contact

Avoid contact with eyes. If eye contaminated, rinse it out with water, ask for medical help.

4.1.4 Following ingestion

Do not induce vomiting!
If swallowed, rinse mouth with water (only if the person is conscious).

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Not specified.

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Water-fog, dry chemicals, foam.

5.1.2 Unsuitable extinguishing media

Full water jet, CO2.

5.2 Special hazards arising from the substance or mixture

When burning may produce oxides of carbon and oxides of nitrogen.

5.3 Advice for firefighters

Self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of insufficient ventilation, wear suitable respiratory equipment.

6.1.2 For emergency responders

Use always personal protective equipment when removing of spilled material: goggles, gloves, respirator in case of dust scatter.

6.2 Environmental precautions

Avoid release to the environment.
Avoid creating dusty conditions.

6.3 Methods and material for containment and cleaning up

Product sweep up and deposit in suitable containers for deposition. Rinse the rest away with water. Incineration, disposal, according local regulations.

6.4 Reference to other sections

See section 8 for information on appropriate personal protective equipment. See section 13 for further information on waste management.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not breathe dust.
Avoid contact with skin and eyes.
When using, do not eat, drink or smoke.
Avoid release to environment.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from sources of ignitions. Do not smoke.
Keep away from food, drink and animal feedstuffs.

Product should be stored in original containers under normal conditions.
Avoid creating dusty conditions.

7.3 Specific end use(s)

Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:
not determined

DNEL:
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper:
Workers - inhalation, long-term effects - 4 mg/m^3
Workers - dermal, long-term effects - 450 mg/kg bw/day
General population, dermal, long-term effects - 225 mg/kg bw/day
General population, oral, long-term effects - 45 mg/kg bw/day

PNEC:
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper:
Sediment (freshwater) - 10 mg/l
Sediment (marine water) - 1 mg/l
Soil - 1 mg/kg

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Avoid inhalation of dust.

8.2.2 Individual protection measures, such as personal protective equipment

All personal protective equipment must be kept in usable condition. Damaged or contaminated equipment must be immediately replaced.

Respiratory protection:	respirator or half mask with dust filter
Hand protection:	protective gloves
Eye/face protection:	protective goggles
Body protection:	protective suit
Thermal hazards:	irrelevant

8.2.3 Environmental exposure controls

Do not empty into drains.

8.3 Other information

This product is classified as non-hazardous. However the usual precautions for handling chemicals must be observed to avoid contact with the skin, eyes and respiratory tract.
When using do not eat, drink, or smoke.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	solid
Colour:	blue
Odour:	odourless

Melting point/freezing point:	not available
Boiling point:	not available
Flammability:	Like other organic dust can combine with air form explosive mixtures
Lower explosion limit:	not available
Upper explosion limit:	not available
Flash point:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	not available
Kinematic viscosity:	not available
Solubility:	not available
Solubility in water:	insoluble
Partition coefficient n-octanol/water:	not available
Vapour pressure:	not available
Density or relative density:	1,7
Relative vapour density:	not available
Particle characteristics:	see section 3

9.2 Other information

no information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Product is stable under normal conditions.

10.2 Chemical stability

This product is stable under normal storage conditions

10.3 Possibility of hazardous reactions

See information in sections 2 and 9.

10.4 Conditions to avoid

Thermal decomposition > 200 °C

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

Burning can produce oxides of carbon and nitrogen and compounds of: copper

10.7 Other information

None.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

LD_{50}, oral, rat (mg/kg):	> 6 000
LD_{50}, dermal, rat or rabbit (mg/kg):	> 5 000
LC_{50}, inhalation, rat (aerosol or particle) (mg/m^3):	no data available

Skin corrosion/irritation:

no data available

Serious eye damage/irritation:
no data available

Respiratory or skin sensitisation:
no data available

Germ cell mutagenicity:
no data available

Carcinogenicity:
no data available

Reproductive toxicity:
no data available

STOT-single exposure:
no data available

STOT-repeated exposure:
no data available

Aspiration hazard:
no data available

Symptoms related to the physical, chemical and toxicological characteristics

Other data not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
They are not known.

11.2.2 Other information
They are not known.

SECTION 12: Ecological information

12.1 Toxicity

12.1.1 Acute (short-term) aquatic toxicity
LC_{50}, 96 h, fish (mg/l): > 100

EC_{50}, 48 h, crustacea (mg/l): > 100

EC_{50}, 72 h, algae (mg/l): > 100

12.1.2 Chronic (long-term) aquatic toxicity
no data available

12.1.3 Toxicity for other organisms
no data available

12.2 Persistence and degradability
(BOD5:COD).100
DEGREE OF ELIMINATION: <10%
COD: no data available
BOD5: no data are available

12.3 Bioaccumulative potential
No data available.

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
Substance does not meet the criteria for PBT or vPvB.

12.6 Endocrine disrupting properties
They are not known.

12.7 Other adverse effects
Organic Halogenide Content: 0 %
Phosphorus Content: 0 %
Nitrogen Content: 19 %
Metal Content: 11 % (Cu)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product disposal
Incineration, disposal, according local regulations.
Residues as well as rinse water must not be discharged into the ground, public sewers, or near water sources and streams.

13.1.2 Packaging disposal
Contaminated empty containers must be disposed of as chemical waste.

SECTION 14: Transport information

No Dangerous Goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulation (EC) No. 1907/2006
Regulation (EC) No. 1272/2008
WGK 1: slightly water endangering (Classification from manufacturer)

15.2 Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other informationn

Indication of changes:
Section 3 - supplementing information

List of abbreviations:
CAS - Chemical Abstracts Service
EC number - EINECS (European Inventory of Existing Commercial Chemical Substance), ELINCS (European List of Notified Chemical Substances) or NLP (No-Longer-Polymers)

LD50 - lethal dose, 50%
LC50 - lethal concentration, 50%
EC50 - effective concentration, 50%
IC50 - inhibitory concentration, 50%
PBT - persistent, bioaccumulative and toxic
vPvB - very persistent and very bioaccumulative
BCF - bioconcentration factor
COD - chemical oxygen demand
BOD - biochemical oxygen demand
DNEL - derived no-effect level
PNEC - predicted no-effect concentration
NOAEL - no observed adverse effect level
NOAEC - no observed adverse effect concentration
NOEC - no observed effect concentration
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG - International Maritime Dangerous Goods
ICAO - International Civil Aviation Organisation
IATA - International Air Transport Association

Key literature references and sources for data:

Chemical databases and tables, tests.

Relevant information for classification of the product:

ECHA - notified substances.

Training advice:

In compliance with safety data sheet.

The above information corresponds to the current level of our knowledge and experience. The data merely describe the product with respect to safety and cannot be construed as guaranteed parameters. The user is responsible for handling in compliance with the existing laws and regulations.