Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II,

Amended by COMMISSION REGULATION (EU) 2020/878,

According to REGULATION (EC) No 1272/2008

Liquid Chalk ink

Version 1.0

Issue date: 16-11-2021

Revision date: 16-11-2021 **SDS Record Number: CSSS-TCO-010-146140**

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name:	BL-SMA100-V2-BL, BL-SMA100-V2-GDSL, BL-SMA100-WHI, BL-SMA100-V4-COL, BL-SMA100-V4-PAS, BL-SMA100-V4-TRO, BL-SMA100-V4-WHI, BL-SMA100-V7-AS, BL-SMA100-V7-MT, BL-SMA100-V7-WT, SMA100-BB-WT, SMA100-BL, SMA100-BU, SMA100-GD, SMA100-GR, SMA100-OR, SMA100-PI, SMA100-RD, SMA100-SL, SMA100-VT, SMA100-WT, SMA100-YE
Additional identification:	Nanoform is NOT covered by this SDS.
UFI:	N/A
Identification of the product:	See section 3
Index Number:	See section 3
REACH registration No.:	See section 3

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

1.2.1 Identified uses:

Stationery for drawing.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):	-
Supplier(Manufacturer):	G. Vermes B.V. (Securit)
Address:	Katernstraat 1, 1321 NC Almere, The Netherlands
Contact person(E-mail):	info@vermes.nl
Telephone:	+31 36 5313554
Fax:	-

1.4 Emergency telephone Number:

Only available during office hours (9:00a.m.-17:30p.m.)

Available outside office hours? YES [ ] NO [X]

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification of the mixture:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
N/A	N/A

2.2 Label elements:

Hazard pictogram(s): No hazard pictogram is used.

Signal word: No signal word is used.

Hazard statement(s): Not applicable.

Precautionary statement(s): Not applicable.

Supplemental Hazard information (EU) Not applicable.

2.3 Other hazards:

The mixture does not contain PBT/vPvB substance.

The mixture does not contain endocrine disruptor.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name		**Registration No.**	**CAS No.**	**EC No.**	**Concentration**	**Classification**	**Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)**
Pastel purple	Water	N/A	7732-18-5	231-791-2	72.3%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not available	N/A
	Pigment Blue 15:3	N/A	147-14-8	205-685-1	1.4%	Not Classified	N/A
	Pigment Red 53:1	N/A	5160-02-1	225-935-3	1%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	Water	N/A	7732-18-5	231-791-2	70.7%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not Classified	N/A

Pastel orange	Pigment Yellow 110	N/A	5590-18-1	226-999-5	3%	Not available	N/A
	Pigment Red 53:1	N/A	5160-02-1	225-935-3	1%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Pastel Green	Water	N/A	7732-18-5	231-791-2	71.7%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	9%	Not Classified	N/A
	Pigment Blue 15:3	N/A	147-14-8	205-685-1	3%	Not Classified	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	1%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Pastel pink	Water	N/A	7732-18-5	231-791-2	71.7%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not Classified	N/A
	Pigment Red 53:1	N/A	5160-02-1	225-935-3	2.5%	Not Classified	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	0.5%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Pastel Yellow	Water	N/A	7732-18-5	231-791-2	71.7%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not Classified	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	3%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Light blue	Water	N/A	7732-18-5	231-791-2	63.7%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	15%	Not Classified	N/A
	Pigment Blue 15:3	N/A	147-14-8	205-685-1	6%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	Water	N/A	7732-18-5	231-791-2	78.2%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A

Metallic blue	Pigment Blue 15:3	N/A	147-14-8	205-685-1	4.5%	Not Classified	N/A
	Aluminium Powder(stabilised)	N/A	7429-90-5	231-072-3	2%	Flam. Sol. 1 H228; Water-react. 2 H261	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Metallic pink	Water	N/A	7732-18-5	231-791-2	79.7%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Pigment Red 53:1	N/A	5160-02-1	225-935-3	3%	Not Classified	N/A
	Aluminium Powder(stabilised)	N/A	7429-90-5	231-072-3	2%	Flam. Sol. 1 H228; Water-react. 2 H261	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Metallic violet	Water	N/A	7732-18-5	231-791-2	77.2%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Pigment Violet 23	N/A	6358-30-1	228-767-9	5.5%	Not Classified	N/A
	Aluminium Powder(stabilised)	N/A	7429-90-5	231-072-3	2%	Flam. Sol. 1 H228; Water-react. 2 H261	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Metallic green	Water	N/A	7732-18-5	231-791-2	78.2%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	3.5%	Not Classified	N/A
	Aluminium Powder(stabilised)	N/A	7429-90-5	231-072-3	2%	Flam. Sol. 1 H228; Water-react. 2 H261	N/A
	Pigment Blue 15:3	N/A	147-14-8	205-685-1	1%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Metallic silver	Water	N/A	7732-18-5	231-791-2	79.7%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Aluminium Powder(stabilised)	N/A	7429-90-5	231-072-3	5%	Flam. Sol. 1 H228; Water-react. 2 H261	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A

Metallic Gold	Water	N/A	7732-18-5	231-791-2	78.2%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	4.5%	Not Classified	N/A
	Aluminium Powder(stabilised)	N/A	7429-90-5	231-072-3	2%	Flam. Sol. 1 H228; Water-react. 2 H261	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Metallic coppe	Water	N/A	7732-18-5	231-791-2	78.2%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	3.5%	Not Classified	N/A
	Aluminium Powder(stabilised)	N/A	7429-90-5	231-072-3	2%	Flam. Sol. 1 H228; Water-react. 2 H261	N/A
	Pigment Red 53:1	N/A	5160-02-1	225-935-3	1%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
Fluorescent yellow	Water	N/A	7732-18-5	231-791-2	70.6%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not Classified	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	4%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	4,4'-bis(2-benzoxazoly)stilbene	N/A	1533-45-5	216-245-3	0.1%	Aquatic Chronic 2 H411	N/A
Fluorescent Purple	Water	N/A	7732-18-5	231-791-2	68.6%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not Classified	N/A
	Pigment Red 53:1	N/A	5160-02-1	225-935-3	5%	Not Classified	N/A
	Pigment Blue 15:3	N/A	147-14-8	205-685-1	1%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	4,4'-bis(2-benzoxazoly)stilbene	N/A	1533-45-5	216-245-3	0.1%	Aquatic Chronic 2 H411	N/A
	Water	N/A	7732-18-5	231-791-2	70.6%	Not Classified	N/A

Fluorescent orange	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not Classified	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	2%	Not Classified	N/A
	Pigment Red 53:1	N/A	5160-02-1	225-935-3	2%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	4,4'-bis(2-benzoxazoly)stilbene	N/A	1533-45-5	216-245-3	0.1%	Aquatic Chronic 2 H411	N/A
White	Water	N/A	7732-18-5	231-791-2	69.6%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	15%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	4,4'-bis(2-benzoxazoly)stilbene	N/A	1533-45-5	216-245-3	0.1%	Aquatic Chronic 2 H411	N/A
Black	Water	N/A	7732-18-5	231-791-2	69.6%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Carbon Black	N/A	1333-86-4	215-609-9	15%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	4,4'-bis(2-benzoxazoly)stilbene	N/A	1533-45-5	216-245-3	0.1%	Aquatic Chronic 2 H411	N/A
Fluorescent green	Water	N/A	7732-18-5	231-791-2	69.6%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not Classified	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	4%	Not Classified	N/A
	Pigment Blue 15:3	N/A	147-14-8	205-685-1	1%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	4,4'-bis(2-benzoxazoly)stilbene	N/A	1533-45-5	216-245-3	0.1%	Aquatic Chronic 2 H411	N/A
	Water	N/A	7732-18-5	231-791-2	70.6%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not Classified	N/A

Fluorescent Blue	Pigment Blue 15:3	N/A	147-14-8	205-685-1	4%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	4,4'-bis(2-benzoxazoly)stilbene	N/A	1533-45-5	216-245-3	0.1%	Aquatic Chronic 2 H411	N/A
Fluorescent Red	Water	N/A	7732-18-5	231-791-2	70.6%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	10%	Not Classified	N/A
	Pigment Red 53:1	N/A	5160-02-1	225-935-3	4%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	4,4'-bis(2-benzoxazoly)stilbene	N/A	1533-45-5	216-245-3	0.1%	Aquatic Chronic 2 H411	N/A
Fluorescent Pink	Water	N/A	7732-18-5	231-791-2	72%	Not Classified	N/A
	Glycerol	N/A	56-81-5	200-289-5	15%	Not Classified	N/A
	Titanium oxide	N/A	1317-80-2	215-282-2	12%	Not Classified	N/A
	Pigment Red 53:1	N/A	5160-02-1	225-935-3	0.5%	Not Classified	N/A
	Tris(2-Hydroxyethyl) Amine	N/A	102-71-6	203-049-8	0.3%	Not Classified	N/A
	4,4'-bis(2-benzoxazoly)stilbene	N/A	1533-45-5	216-245-3	0.1%	Aquatic Chronic 2 H411	N/A
	Pigment Yellow 110	N/A	5590-18-1	226-999-5	0.1%	Not Classified	N/A

0% of the mixture consists of component (s) of unknown toxicity.

0% of components with unknown hazards to the aquatic environment.

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Move person to fresh air; if effects occur, consult a physician.

4.1.2 In case of skin contact:

Wash skin with plenty of water.

4.1.3 In case of eyes contact:

Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

4.1.4 In case of ingestion:

If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed:

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred.

Unsuitable extinguishing media: Do not use direct water stream. May spread fire. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

5.2 Special hazards arising from the substance or mixture

Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

5.3 Advice for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment.

6.1.2 For emergency responders: Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

6.2 Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

6.3 Methods and material for Containment and Cleaning up: Recover spilled material if possible. Contain spilled material if possible. Absorb with materials such as: Sand. Collect in suitable and properly labeled containers.

6.4 Reference to other sections: See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s): Not available.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

				Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period		
Country	Substance	EC No.	CAS No.	ppm	mg/m^3	ppm	mg/m^3	Notes
Ireland	Glycerol	200-289-5	56-81-5	-	10	-	-	-
Ireland	Tris(2-Hydroxyethyl)Amine	203-049-8	102-71-6	-	5	-	-	-
Ireland	Carbon Black	215-609-9	1333-86-4	-	3 Inhalable fraction	-	-	-
Denmark	Tris(2-Hydroxyethyl)Amine	203-049-8	102-71-6	0.5	3.1	1	6.2	-
Finland	Glycerol	200-289-5	56-81-5	-	20	-	-	-
Finland	Carbon Black	215-609-9	1333-86-4	-	3.5	-	7	-
Germany (AGS)	Glycerol	200-289-5	56-81-5	-	200 Inhalable fraction	-	400 Inhalable fraction	-
Germany (DFG)	Glycerol	200-289-5	56-81-5	-	200 Inhalable	-	400 Inhalable	-
					fraction		fraction	
Germany (DFG)	Aluminium Powder(stabilised)	231-072-3	7429-90-5	-	4 Inhalable fraction; 1.5 Respirable fraction	-	-	-
Latvia	Pigment Blue 15:3	205-685-1	147-14-8	-	5	-	-	-
Poland	Aluminium Powder(stabilised)	231-072-3	7429-90-5	-	2.5 (Fume, total dust); 1.2 (Fume, respirable dust)	-	-	-
Poland	Carbon Black	215-609-9	1333-86-4	-	4 Inhalable fraction	-	-	-
Sweden	Tris(2-Hydroxyethyl)Amine	203-049-8	102-71-6	0.8	5	1.6	10	-
Sweden	Carbon Black	215-609-9	1333-86-4	-	3	-	-	-

8.1.2 exposure limits under the conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Use safety glasses. Safety glasses should be consistent with EN 166 or equivalent.

Skin protection

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Polyethylene. Neoprene. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl alcohol ("PVA"). Ethyl vinyl alcohol laminate ("EVAL"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Body protection: When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full-body suit will depend on the task.

Respiratory protection: Atmospheric levels should be maintained below the exposure guideline. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. Dispose of rinse water in accordance with local and national regulations

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Pastel purple, pastel orange, pastel green, pastel pink, pastel yellow, light blue, metallic blue, metallic pink, metallic violet, metallic green, metallic silver, metallic gold, metallic copper, fluorescent yellow, fluorescent purple, fluorescent orange, white, black, fluorescent green, fluorescent blue, fluorescent red, fluorescent pink
Odour:	Odorless
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	Not available
Boiling point/range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not applicable
Ignition temperature (°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Relative Density:	Not available
Bulk density (kg/m^3):	Not available
Water solubility (g/l):	Not available
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Non-explosive
Oxidising properties:	No oxidizing properties

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

10.1 Reactivity: The substance is stable under normal storage and handling conditions.

10.2 Chemical stability: Stable under recommended storage conditions. Hygroscopic.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: Exposure to elevated temperatures can cause product to decompose. Avoid moisture.

10.5 Incompatible materials: Avoid contact with strong oxidizers.

10.6 Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Acrolein, carbon oxide.

Section 11 Toxicological information

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

Acute toxicity:

Glycerol (CAS# 56-81-5)

LD50(Oral, Rat):	27 200 mg/kg bw
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	> 5 850 mg/m³ air, 4h

Pigment Blue 15:3 (CAS# 147-14-8)

LD50(Oral, Rat):	> 6 400 mg/kg bw
LD50(Dermal, Rat):	> 5 000 mg/kg bw
LC50(Inhalation, Rat):	Not available

Pigment Red 53:1 (CAS# 5160-02-1)

LD50(Oral, Rat):	> 10 000 mg/kg bw
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	> 5.24 mg/L air, 4h

Tris(2-Hydroxyethyl)Amine (CAS# 102-71-6)

LD50(Oral, Rat):	6 400 mg/kg bw
LD50(Dermal, Rabbit):	> 2 000 mg/kg bw
LC50(Inhalation, Rat):	Not available

Pigment Yellow 110 (CAS# 5590-18-1)

LD50(Oral, Rat):	2 340 mg/kg bw
LD50(Dermal, Rat):	> 5 000 mg/kg bw
LC50(Inhalation, Rat):	Not available

4,4'-bis(2-benzoxazoly)stilbene (CAS# 1533-45-5)

LD50(Oral, Rat):	> 2 000 mg/kg bw
LD50(Dermal, Rat):	> 2 000 mg/kg bw
LC50(Inhalation, Rat):	Not available

Carbon Black (CAS# 1333-86-4)

LD50(Oral, Rat):	> 8 000 mg/kg bw
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	Not available

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

11.2 Information on other hazards

Endocrine disrupting properties	The mixture does not contain endocrine disruptor.
Other information	Not applicable

Section 12 Ecological information

12.1 Toxicity:

Glycerol (CAS# 56-81-5)

Acute (short-term) toxicity:

LC50(96h, Fish):	54 000 mg/L
LC50(48h, Crustacea):	1 955 mg/L
EC50(72h, Algae/aquatic plants):	Not available

Pigment Blue 15:3 (CAS# 147-14-8)

Acute (short-term) toxicity:

LC50(96h, Fish):	> 100 mg/L
EC50(48h, Crustacea):	> 500 mg/L
EC50(72h, Algae/aquatic plants):	> 100 mg/L

Pigment Red 53:1 (CAS# 5160-02-1)

Acute (short-term) toxicity:

LC50(96h, Fish):	> 500 mg/L
EC50(48h, Crustacea):	> 3.8 mg/L
EC50(72h, Algae/aquatic plants):	> 100 mg/L

Tris(2-Hydroxyethyl)Amine (CAS# 102-71-6)

Acute (short-term) toxicity:

LC50(96h, Fish):	11 800 mg/L
EC50(48h, Crustacea):	609.88 mg/L
EC50(72h, Algae/aquatic plants):	512 mg/L

Chronic (long-term) toxicity:

NOEC(Fish):	Not available
NOEC(Crustacea):	125 mg/L, 21d
EC50(Algae/aquatic plants):	Not available

Aluminium Powder(stabilised) (CAS# 7429-90-5)

Acute (short-term) toxicity:

LC50(96h, Fish):	6.17 mg/L
LC50(48h, Crustacea):	1.88 mg/L
EC50(72h, Algae/aquatic plants):	350 µg/L

Chronic (long-term) toxicity:

NOEC(Fish):	548.3 µg/L, 33d
NOEC(Crustacea):	962.5 µg/L, 17d
EC50(Algae/aquatic plants):	14 537 µg/L, 7d

4,4'-bis(2-benzoxazoly)stilbene (CAS# 1533-45-5)

Acute (short-term) toxicity:

LC50(96h, Fish):	> 0.731 mg/L
EC50(48h, Crustacea):	> 0.645 mg/L
EC50(72h, Algae/aquatic plants):	2.391 mg/L

Carbon Black (CAS# 1333-86-4)

Acute (short-term) toxicity:

LC50(96h, Fish):	> 1 000 mg/L
LC50(48h, Crustacea):	Not available
EC50(72h, Algae/aquatic plants):	> 10 000 mg/L

12.2 Persistence and degradability: Not available.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: The mixture does not contain PBT / vPvB substance.

12.6 Endocrine disrupting properties: The mixture does not contain endocrine disruptor.

12.7 Other adverse effects: Not available.

12.8 Additional information Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

Section 14 Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
14. 1 UN number or ID number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
14.3 Transport hazard Class(es)	Not regulated	Not regulated	Not regulated	Not regulated
14.4 Packing group	Not regulated	Not regulated	Not regulated	Not regulated
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
14.7 Maritime transport in bulk according to IMO instruments	Not regulated	Not regulated	Not regulated	Not regulated

Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical safety assessment YES [ ] NO [X]

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2020/878

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

UFI: Unique Formula Identifier

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Training instructions:

Not applicable.

16.5 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.6 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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