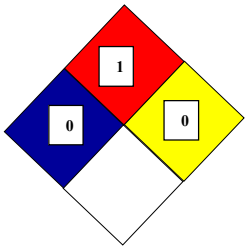
Safety Data Sheet (SDS) as per the requirements of the OSHA Hazard Communication System – GHS (USA)

Authoring date: 06.06.2026 Version 1 Date of issue: 11.06.2026

Sr. No.	Title of the section	Information required in this section
1.	**Identification of the substance & of the company**	
1.1	Identification of the substance/ preparation	1.1.1 CAS No: Not available since the product is a mixture 1.1.2 **Trade Name: Luminophore BYB 400%**
1.2	Other identification	1.2.1 CAS No: Not available since the product is a mixture
1.3	Use of the substance/ preparation	1.3.1 Recommended uses: ▪ Used as a fluorescent optical brightening agent 1.3.2 Restricted uses: No other use than recommended above.
1.4	Company/ under - taking identification	1.4.1 Company name: United Ventures 1.4.2 Contact Person: Mr. Devansh Valia 1.4.3 Manufacture Name: United Ventures 53, Siddhivinayak, Sp-19/20, N.S. Road No. 7, JVPD Scheme, Vile Parle (W), Mumbai 400 049. INDIA. 1.4.4 Telephone number: + 91-22-26701144/55 1.4.5 e-mail: Ventures.united@gmail.com
1.5	Emergency telephone	1.5.1 Emergency telephone number: 91-22-26701144/55 1.5.2 Telephone number of USA importer: Not available 1.5.3 Opening hours: 10.00 a.m. to 6.00 p.m. (IST)
2.	**Hazard Identification**	
2.1	Classification of the substance/preparation according to Regulation 1910.1200 [GHS]	**Classification:** ▪ **Not Classified** **Hazard pictogram**: No hazard pictogram is applicable **Signal Word:** No signal word is applicable **Hazard phrase/statement:** Not applicable **Precautionary phrase/statements**: Not applicable
2.2	Other Information	**Hazard Ratings: NFPA (scale 0 - 4)** Health: 0 Flammability: 1 Reactivity: 0 **Hazard Ratings: HMIS** Health: 0 Flammability: 1 Reactivity: 0 

		The product in the delivered form is not dust explosion capable; however, the enrichment of fine dust leads to the danger of dust explosion.
		NFPA (National Fire Protection Association) Ratings: HMIS (Hazardous Materials Identification System) Ratings: *Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme. An asterisk appearing after the HMIS Health numerical rating denotes a chronic hazard.*
3.	**Composition /Information on Ingredients**	
3.2	Composition	**CAS No.** / **Chemical Name** / **% wt/wt** / **Classification** 497-19-8 / Sodium carbonate / Proprietary / Eye Irrit. 2
3.3.	Classified Impurities and stabilizing additives contributing to classification of the chemical/mixture	None
4.	**First Aid Measures**	
4.1	**Description of first aid measures**	**General Information:** Immediately remove any clothing soiled by the product. Consult a physician if feeling unwell. Show this safety data sheet to the doctor in attendance. **Inhalation:** If chemical is inhaled, move person into fresh air. Keep at rest. If not breathing, give artificial respiration. Consult a physician **Skin contact:** Remove contaminated clothing. Wash off with soap and plenty of water. **Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses, if possible to do so easily. In case irritation persists, consult an ophthalmologist. **Oral:** Rinse mouth with water immediately. Seek medical advice. Do not induce vomiting.
4.2	**Important symptoms & effects**	None
4.3	**Immediate medical attention**	**Notes for the doctor:** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. Follow first aid instructions given above in case of skin and eye contact.
5.	**Fire Fighting Measures**	
5.1	**suitable extinguishing media**	CO_2, Powder, Alcohol-resistant foam, Water fog/spray. Use fire extinguishing methods suitable to surrounding conditions.
5.2	**Special hazard arising from the chemical**	In case of fire, the following can be released: Carbon monoxide (CO) Carbon dioxide (CO_2) Dust can form an explosive mixture with air.
5.3	**Special protective equipment and precautions for firefighters**	Wear proper protective equipment Wear self-contained breathing apparatus.
6.	**Accidental Release Measures**	
6.1	**Personal precautions, protective equipment and**	**6.1.1 For non-emergency personnel** ➢ **Protective equipment:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls as appropriate to prevent skin contact.

	emergency procedures	➢ **Emergency procedures:** Remove an incapacitated worker from further exposure. Keep unconscious victims warm and on their sides to avoid choking if vomiting occurs. Initiate the measures / procedures as mentioned in Section 4. ➢ **Removal of ignition sources:** Disconnect electrical connection and all other sources of ignition. ➢ **Provision of sufficient ventilation:** Adequate ventilation should be provided when accidental release occurs. **6.1.2 For emergency responders:** Evacuate personnel to safe areas. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Do not touch the spilled material. Avoid the spread of the spillage by using adsorbents, if this can be done without risks. Ground all equipment containing material.
6.2	**Methods and material for containment and cleaning up**	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Avoid generating dust. Use a spark-proof tool. Keep in suitable and closed containers for disposal in accordance with applicable laws and regulations.
7.	**Handling and Storage**	
7.1.	**Precautions for safe handling**	**7.1.1. Recommendations shall be specified to:** Read label carefully before use. Smoking, eating and drinking should be prohibited in the application area. Keep away from open flames. Welding only under supervision **7.1.2. Advice on general occupational hygiene**: (a) not to eat, drink and smoke in work areas (b) to wash hands after use; and (c) remove contaminated clothing and protective equipment before entering eating areas
7.2	**Conditions for safe storage, including any incompatibilities**	**(a) How to manage risks associated with storage :** Store in roofed places at ambient temperature Store the material in a well-ventilated, secure area out of reach of children and domestic animals. 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 Do not store food, beverages or tobacco product in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. **(b) Other advice including:** Store away from incompatible materials such as strong acids, alkali or oxidizing agents. Store in cool, dry conditions in well-sealed receptacles.
8.	**Exposure Controls / Personal Protection**	
8.1.	**Control parameters**	Derived no effect level (DNEL) for Workers (of the optical brightener) ▪ 84 mg/kg bw/day (Dermal) ▪ 59.42 mg/m³ (Inhalation)

8.2.	**Exposure controls**	
8.2.1.	**Appropriate engineering controls**	A system of general or local exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value needs to be provided. Ensure that eyewash stations and safety showers are proximal to the work-station location. Do not release to the atmosphere or water streams. Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.)
8.2.2.	**Individual protection measures**	**(a) Eye / face protection:** Wear appropriate protective eyeglasses, splash goggles or chemical safety goggles and face shield. **(b) Skin protection:** Wear appropriate protective clothing like impervious lab coat, apron or coveralls. (i) <u>Hand protection</u>: Use compatible chemical / solvent resistant protective gloves made of suitable materials. Butyl rubber gloves are recommended. (ii) <u>Other</u>: Wear appropriate boots and other footwear. **(c) Respiratory protection:** In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use self-contained respiratory protective device. Short term filter device: Filter AX. In case of emergency spills, use a NIOSH approved respirator with any N, R, P, or HE filter. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR). **(d) General protective and hygienic measures:** • Keep away from foodstuffs, beverages and feed. • Immediately remove all soiled and contaminated clothing. • Wash hands before breaks and at the end of work. • Store protective clothing separately.
9.	**Physical & Chemical Properties**	
9.1.	**Information on basic physical and chemical properties**	(a) Appearance: Powder (b) Color: Greenish yellow (c) Odor: Odorless (d) pH: 9.0 – 10.5 (1% solution) (e) Melting point: >300 °C (f) Boiling point: Not applicable since the product is a solid mixture (g) Decomposition point: Not determined (h) Vapour pressure : Not relevant (i) Density : Bulk Density = 0.7 – 0.9. (j) Flammability: Not flammable (k) Auto-ignition temperature: No self ignition property (l) Danger of explosion: No explosive properties (m) Upper/lower flammability or explosive limits: Not applicable (n) Solubility(ies): (water): 2% at 70°C

		(o) Partition coefficient: n-octanol/water: Not determined		
9.2.	**Other information**	No further relevant information		
10.	**Stability and Reactivity**			
10.1	Reactivity	Reacts with oxidizing agents, strong acids and alkalis.		
10.2	Chemical stability	No decomposition if used according to specifications		
10.3	Possibility of hazardous reactions	Product does not exhibit any hazardous reactions under normal conditions.		
10.4	Conditions to avoid	Humidity Avoid generation of dust.		
10.5	Incompatible materials	Strong oxidizing agents, strong acids and alkalis		
10.6	Hazardous decomposition products	No hazardous decomposition products if stored and handled as prescribed Hazardous decomposition products formed under fire conditions. – Oxides of Carbon and Nitrogen		
11.	**Toxicological Information (of the optical brightener)**			
11.1	**Information on toxicological effects**	Oral	LD50	> 10000 mg/kg bw (rat) - male/female
		Dermal	LD50	> 2000 mg/kg bw (Wistar rat) male/female
		Inhalation (dust)	LC50 (4 hr)	> 1895 mg/m^3 air (nominal) – Wistar rat - male/female
	skin corrosion/irritation	Not irritating (New Zealand White Rabbit)		
	serious eye damage/irritation	Not irritating to eyes (Rabbit)		
	Sensitization:	Not sensitizing – (guinea pig maximization test)		
	Germ cell mutagenicity	Negative (mammalian cell gene mutation assay)		
11.2	Numerical measures of toxicity (such as acute toxicity estimates)	Please refer section 11.1 above		
11.3	Chemical if, listed in NTP or IARC or by OSHA as Carcinogens	IARC (International Agency for Research on Cancer): Not listed. NTP (National Toxicology Program): Not listed OSHA (Occupational Safety & Health Administration: Not listed.		
11.4	Other information	Repeated dose toxicity (Oral): NOAEL: 779 mg/kg bw/day (actual dose received) (female) Rat Wistar NOAEL: 542 mg/kg bw/day (actual dose received) (male)		

		Reproductive toxicity: No Observed Adverse Effect Level (NOAEL) for parental toxicity was 300 mg/kg day and for parental reproductive performance, the NOAEL was l000 mg/kg day. [Rat – male/female]	
12.	**Ecological Information ((of the optical brightener)**		
12.1.	**Aquatic Toxicity**	LC50 (96 hrs) Fish	> 100 mg/L (Zebra fish)
		EC50 (48hrs) Invertebrate	> 100 mg/L (Daphnia magna)
		EC50 (72 hrs) Algae	> 100 mg/L (Scenedesmus subspicatus)
12.2.	**Persistence and degradability**	Not readily biodegradable.	
12.3.	**Bio-accumulative potential**	Bio-concentration factor (BCF) in aquatic species = 0.5 dimensionless	
12.4.	**Environmental fate (exposure)**	Koc at 20°C: No conclusive data	
12.5.	**Other adverse effects**	Do not allow product to reach ground water, water course or sewage system.	
13.	**Disposal Considerations**		
13.1	**Waste treatment methods**	**(a) Waste treatment containers and methods:** Waste Disposal Method: Waste must be disposed of according to applicable federal, state or local regulations. Container disposal – Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations. **(b) Sewage disposal:** Sewage disposal shall be discouraged	
13.2	**Additional information:**	Empty containers must be decontaminated before returning for recycling	
14.	**Transport Information**		
	(Information includes RID, ADR, DOT, AND, ICAO, IMDG, IATA-DGR)	14.1. UN number (DOT, ADR, ADN, IMDG, IATA): Not applicable 14.2. UN proper shipping name (ADR, IMDG, IATA): Not applicable 14.3. Transport hazard class(es) (DOT, ADR, ADN, IMDG, IATA): Not regulated as dangerous/hazardous in the meaning of transport regulation 14.4. Packing group (DOT, ADR, IMDG, IATA): Not applicable 14.5. Environmental hazards (e.g., Marine pollutant (Yes/No)): No 14.6. Special precautions for user: Not applicable 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable UN "Model Regulation": Not applicable	
15.	**Regulatory Information**		
15.1	**Safety, health and**	• Other regulations: Listed /not listed within the following regulation	

	environmental regulations/ legislation specific for the substance or mixture	✓ Sara - section 355 (extremely hazardous substance): Ingredients not listed ✓ Sara - section 313 (specific toxic chemical listings): Ingredients not listed ✓ TSCA (TOXIC SUBSTANCE CONTROL ACT) – Ingredients listed ✓ Proposition 65 (chemical known to cause cancer): Ingredients not listed ✓ Proposition 65 (chemical known to cause reproductive toxicity for females/ males): Ingredients not listed ✓ Chemicals known to cause developmental toxicity: Ingredients not listed ✓ U.S. EPA Carcinogens – Ingredients not listed ✓ OSHA – Ca (Occupational Health and Safety Administration): Ingredients not listed U.S. federal and state regulations/legislation: This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200. U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ): Not applicable
16.	**Other Information**	
16.1	**SDS authoring date Date: 06.01.2021** **Sections of the SDS authored**	Section 1: Identification of the substance/mixture and of the company/undertaking Section 2: Hazard Identification - Changes in Classification and Labeling. Section 3: Composition /Information on Ingredients Section 4: First aid measures Section 5: Fire-fighting measures Section 6: Accidental Release measures Section 7: Handling and storage. Section 8: Exposure Controls/Personal protection. Section 9: Physical and Chemical properties. Section 10: Stability and Reactivity. Section 11: Toxicological Information. Section 12: Ecological Information. Section 13: Disposal considerations Section 14: Transport labeling Section 15: Regulatory Information Section 16: Other information
16.2	**Abbreviations and acronyms**	• OSHA: Occupational Safety and Health Administration • GHS: Globally harmonized system on classification and labelling • TWA: Time Weighted Average • STEL: Short Term Exposure Limit • PEL: Permissible Exposure Limits • ACGIH: American Conference of Governmental Industrial Hygienists • NIOSH: National Institute for Occupational Safety and Health • TLV: Threshold Limit Value • MARPOL: Marine pollution • IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk • IARC: International Agency for Research on Cancer • NTP: National Toxicology Program • CAS: Chemical Abstracts Service (division of the American Chemical Society) • IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association • IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization • ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

		• NOAEL = No observed adverse effect level
16.3	**Key literature references and sources for data**	▪ https://pubchem.ncbi.nlm.nih.gov/compound/6434593 ▪ https://echa.europa.eu/registration-dossier/-/registered-dossier/15216/1 ▪ http://apciss.cirs-group.com/ ▪ https://www.bnl.gov/esh/env/compliance/docs/SaraTitleList.pdf

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