

SAFETY DATA SHEET (SDS)

SolarFast Dye - Pg 1

Revision Date: 08/17/2021

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	SOLARFAST DYE	
Product Number/Code:	100-113 (ALL COLORS)	
Recommended Use:	UV-activated dye for natural fibers, paper & wood	
Chemical Family:	Vat Dye	
Restrictions on use:	None known	
Emergency Number:	ChemTel, Inc. - Contract #MIS9128344	
	North America: 1-800-255-3924	International: 1-813-248-0585

SECTION 2 - HAZARD(S) IDENTIFICATION

This product is not considered to be or contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, reference 29 CFR 1910.1200.	
Toxicological Data on Ingredients:	
Hazard Classification	Not a hazardous substance or mixture.
Physical Hazards:	Not classified
Health Hazards:	Not classified
Environmental Hazards:	Not classified
Label Elements	
Pictogram:	None
Signal Words:	None
Hazard Statements-EU:	The mixture does not meet the criteria for classification.
Precautionary Statements-EU:	
Prevention:	P264: Wash face, hands, and any exposed skin thoroughly after handling. P280: Wear protective gloves/ protective clothing/eye protection/face protection P270: Do not eat, drink, or smoke when using this product. P273: Avoid release to the environment

Response:	<p>P337 + P313: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</p> <p>P302 + P352: IF ON SKIN: Wash with plenty of soap and water for 15 minutes.</p> <p>P332 + P313: If skin irritation occurs: Get medical advice/attention.</p> <p>P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing.</p>
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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	Content in percent (%)*	CAS #
Proprietary Dye Mixture*	---	---
*The exact ingredient percentages and non-hazardous components have been withheld as a trade secret.		

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
General Information:	IMMEDIATELY REMOVE ALL CONTAMINATED CLOTHING
In the event of skin contact:	Remove all contaminated clothing immediately. Wash immediately with soap and plenty of water. If a temporary skin reaction occurs, it should be treated as allergic contact dermatitis. Launder contaminated clothing before reuse.
In the event of eye contact:	Wash immediately with large amounts of water for 15 minutes, lifting the upper and lower lids until no evidence of product remain. Get medical attention immediately. Do not wear contact lenses while handling.
In the event of swallowing:	Dilute with water. Get medical attention. Never give fluids or induce vomiting if patient is unconscious or has convulsions.
In the event of exposure by inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.
Most important symptoms and effects, acute and delayed:	The most significant symptoms and effects are described in the labelling (see section 2) and/or in section 11
Eye contact:	Direct contact with eyes may cause temporary irritation.
Inhalation:	N/A
Skin Contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.
Over-exposure signs/symptoms	
Eye contact:	No specific data.
Inhalation:	No specific data.
Skin Contact:	No specific data.
Ingestion:	No specific data.
Indication of any immediate medical attention and special treatment needed:	
Notes to physician:	Treat symptomatically.

SECTION 5 - FIREFIGHTING MEASURES

Flashpoint:	N/A
Suitable extinguishing media:	Water, Dry Chemical, Foam
Unsuitable extinguishing media:	N/A
Special hazards arising from the substance or mixture:	N/A
Hazardous combustion products:	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Special protective equipment and precautions for firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions:	Use water spray to cool unopened containers.
Specific methods:	Firefighters should be equipped with protective clothing & self-contained breathing apparatus to protect against potentially toxic & irritating fumes. In case of fire or explosion, keep unnecessary people away. Isolate hazard area & any entry. Stay upwind, out of low areas, and ventilate closed spaces before entering.
General fire hazards:	This product is not flammable or combustible.
Advice for fire fighters:	Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Additional Information:	N/A

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	N/A
For non-emergency personnel:	Wear personal protective equipment.
For emergency responders:	Equip cleanup crew with proper protection. Ventilate area.
Clean up Procedures:	Take up with sand or other non-combustible absorbent material or suitable vacuum and place into labeled sealable containers.
Environmental procedures:	Prevent further leakage or spillage. The product should not be allowed to enter drains, water courses or the soil.
Reference to other sections:	For further disposal measures, see Section 13. Exposure controls and personal protection, see Section 8.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Store in dry place, away from excessive heat, in original or similar water-proof container. Reseal container immediately after use. Avoid unnecessary contact. Observe the usual precautionary measures required for chemicals with dust-explosive properties. Observe national regulations. In filling operations take precautionary measures against static discharges.
Conditions for safe storage, including any incompatibilities:	Keep container protected from direct sunlight in a dry, cool and in a well-ventilated area. Keep the container tightly sealed and away from any incompatible materials (see Section 10).

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	
Occupational exposure limits:	
Recommended monitoring procedures:	N/A
Biological limit values:	No biological exposure limits noted for the ingredient(s).
Exposure controls:	Contains no substances with occupational exposure limit values.
Appropriate engineering controls:	Handle with good industrial practices and industrial hygiene. Wash hands after use.
Individual protection measures, such as personal protective equipment:	
General protective measures:	Use with adequate ventilation. In the case of dust or aerosol formation use respirator with an approved filter. Avoid contact with skin, eyes and clothing. Keep away from food, drink and animal feeding stuffs.
Eye/face protection:	Employees should wear protective eye-goggles with side protection shield.
Skin protection:	Wear suitable protective clothing.
Hand protection:	Wear appropriate chemical resistant gloves.
Other protective equipment:	Wear overalls, apron or other protective clothing.
Environmental exposure controls:	
Respiratory protection:	N/A
Thermal hazards:	N/A
Ventilation:	N/A
Other information:	N/A



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Liquid
Color:	Various
Type of Odor:	Mild
Odor threshold:	N/A
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	N/A
Melting Point/Freezing Point:	N/A
Flammability Classification:	N/A
Flash Point:	> 100 °C, Method:ASTM D 92-97
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/D
Flammability Limits (lower/upper):	N/D
Evaporation rate:	N/A
Vapor Pressure:	N/A
Vapor Density (Air=1):	N/A
Octanol/Water Partition Coefficient (log Pow):	N/D
Specific Gravity:	N/A
Bulk Density:	N/A
Density:	N/A
Relative Density:	N/A
Water Solubility:	Dispersible
pH:	8.5 - 9.5, 1% Solution @ 20 C
Viscosity:	N/A
Explosive Properties:	N/A
Oxidizing Properties:	N/A
Molecular Formula:	N/A
Molecular Weight:	N/A
UEL:	N/A
LEL:	N/A
% Volatile:	N/D

SECTION 10 - STABILITY AND REACTIVITY

Thermal Decomposition:	No thermal decomposition when stored and handled correctly.
Reactivity:	Stable at ambient temperature and under normal conditions of use.
Chemical Stability:	Material is stable under recommended conditions.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	N/A
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	CO ₂ , CO, Sulfur Oxides, Nitrogen Oxides



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SECTION II - TOXICOLOGICAL INFORMATION

Information on toxicological effects:	
Acute toxicity (list all possible routes of exposure)	
Acute Toxicity:	N/A
Acute Oral Toxicity:	LD50: Rat (Ingestion) 50,000 mg/kg LC50: Fish (Oncorhynchus mykiss) > 2,500 mg/l (96 h)
Skin Corrosion/Irritation:	Prolonged skin contact may cause temporary irritation.
Skin Sensitization:	This product is not expected to cause skin sensitization.
Serious Eye Damage / Eye Irritation:	Irritant
Germ Cell Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	IARC: No
	NTP: No
	OSHA: No
	ACGIH: No
Reproductive Toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific Target Organ Toxicity - single exposure (STOT-se):	Not classified.
Specific Target Organ Toxicity - repeated exposure (STOT-re):	Not classified.
Potential Health Effects/Primary Route of Exposure:	
Skin Contact:	Yes
Skin Absorption:	No
Eye Contact:	Yes
Ingestion:	No
Inhalation:	No
Chronic Health Effects of Overexposure:	None
Signs and Symptoms of Overexposure:	May cause eye, skin, and irritation of the respiratory tract.
Medical Conditions Aggravated:	Persons with any pre-existing skin, eye or respiratory condition may be more susceptible to the effects of this product.
Symptoms related to the physical, chemical and toxicological characteristics:	N/A

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:	
Ecotoxicity:	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Acute/prolonged toxicity to fish:	LC50: > 2,500 mg/l
Toxicity to bacteria, to microorganisms:	IC50: > 25,000 mg/l (activated sludge) EC0: > 2,500 mg/l
Chronic toxicity to aquatic organisms:	EC50: Daphnia magna > 2,500 mg/l (48 h)
Sodium chloride (CAS 7647-14-5)	<i>Aquatic</i> Acute Crustacea - EC50: Daphnia magna, 402.6 mg/l (48 h) Acute Fish - LC50: Bluegill (Lepomis macrochirus) 1294.6 mg/l (96 h) Chronic Crustacea - EC50: Daphnia magna, 14800 mg/l (21 days)
Persistence and degradability:	No data is available on the degradability of this product.
Biodegradability:	N/A
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
AOX:	No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Disposal - product:	If utilization or recycling of the product is not possible, it should be disposed of in accordance with existing federal, state and local environmental regulations, e.g. by incineration in a suitable plant.
Disposal Instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations:	Dispose in accordance with all applicable regulations.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Container Disposal / Contaminated packaging:	Soiled, empty containers are to be treated in the same way as the contents.

SECTION 14 - TRANSPORT INFORMATION

General Information:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN number:	Not relevant
UN proper shipping name:	Non-Hazardous Ink Material
Transport hazard class:	Not relevant
Packing group:	Not relevant
Fr. Class Package:	55
Environmental Hazards:	
Environmentally hazardous substance:	No
Special precautions for user:	No

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:		
US Federal Regulations		
This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA:	The components of this product are listed on the TSCA Inventory	
Xanthan Gum (11138-66-2)	TSCA 8(b) inventory : Xanthan gum	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated	
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed.	
SARA 304 Emergency release notification	Not regulated	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not regulated	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
SARA 302: Extremely hazardous substance	Not listed.	
SARA 311/312: Hazardous Chemical	Immediate (acute) health hazard	No
	Delayed (chronic) health hazard	No
	Fire hazard	No
	Sudden Release of Pressure	No
	Reactivity	No
SARA 313:	This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.	
Other Federal Regulations		
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.	
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.	
US State Regulations		
Massachusetts Right-to-Know:	Magnesium carbonate (CAS 546-93-0)	
New Jersey Right-to-Know:	Magnesium carbonate (CAS 546-93-0) Xanthan Gum (CAS 11138-66-2)	
Pennsylvania Right-to-Know:	Not listed.	
Rhode Island Right-to-Know:	Magnesium carbonate (CAS 546-93-0)	
California Proposition 65:	This product does NOT contain any components currently on the California List of Known Carcinogens and reproductive Toxins.	
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))	Magnesium carbonate (CAS 546-93-0)	
International Inventories		
<i>Country(s) or region</i>	<i>Inventory name</i>	<i>On inventory (yes/no)*</i>
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No

China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
TSCA list	No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.	
*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).		
Other Regulations:	Labeling is not required in accordance with the EEC directives.	
This product is not subject to the German Ordinance that bans certain AZO dyes or the 19 th Amendment of the Council Directive 76/769/EEC.		



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SECTION 16 - OTHER INFORMATION

HMIS Hazard ID:	
Health:	1
Flammability:	0
Reactivity:	0
Personal Protection:	N/A
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect	

Disclaimer:

The information contained in this SDS is based on data from sources considered to be reliable but Dharma Trading Co does not guarantee the accuracy or completeness thereof. Dharma Trading Co urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

Revision Date: 08/17/2021

National Chemical Inventories:	
All components of this product are listed on the following chemical substance inventories: TSCA (USA)	
DSL	(Canada)
EINECS	(Europe)
ENCS	(Japan) ECL
	(Korea)
AICS	(Australia) NZIoC
	(New Zealand)
PICCS	(Philippines)
IECSC	(China)



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Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	International carriage of Dangerous goods by Road
AICS	Australian Inventory of Chemical Substances
ATE	Acute Toxicity Estimate
BfR	Bundesinstitut für Risikobewertung recommendations for food contact materials
BCF	Bioconcentration Factor
BOD5	5-day Biochemical Oxygen Demand
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CLP	Classification, Labeling and Packaging regulation
COD	Chemical Oxygen Demand DOT Department of Transportation DSL Domestic Substances List
EINECS	European Inventory of Existing Chemical Substances
ECL	Existing Chemicals List (Korea)
ENCS	Existing and New Chemical Substances Inventory (Japan)
EN 689	Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.
ERG	Emergency Response Guide
GHS	Globally Harmonized System
HMIS	Hazardous Materials Information System IARC International Agency for Research on Cancer IATA International Air Transport Association
ICAO	International Civil Aviation Organization IDLH Immediately Dangerous to Life and Health IMDG International Maritime Dangerous Goods
LD50	Lethal Dose to 50% of test animal population
MAK	Maximale Arbeitsplatz Konzentration
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent, Bioaccumulative and Toxic vPvB Very Persistent and Very Bioaccumulative PEL Permissible exposure limit
PICCS	Philippine Inventory of Commercial Chemical Substances
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemical Substances
RID	International carriage of dangerous goods by Rail SARA Superfund Amendments and Reauthorization Act STEL Short Term Exposure Limit
SVHC	Substance of Very High Concern
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
VOC	Volatile Organic Compound
WGK	Wassergefährdungsklasse (Water Hazard Class) WHMIS Workplace Hazardous Material Identification System