

Jacquard Safety Data Sheet

Color Intensifier

1 . Product and company identification

Product name : Color Intensifier
Material uses : Textile chemical
Chemical family : Aqueous emulsion of organic esters
MSDS # : 00042563
Validation date : 7/30/2015.
Supplier/Manufacturer : Rupert, Gibbon, & Spider Inc
1147 Healdsburg Avenue
Healdsburg CA 95448

Phone: 707-433-9577

service@jacquardproducts.com

Incaseofemergency : Poison Control 800-222-1222

2 . Hazards identification

Physical state : Liquid.
Odor : Sweet.
Color : Amber.
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview : WARNING!
CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED.
Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.

See toxicological information (Section 11)

GENERAL INFORMATION : Read the entire MSDS for a more thorough evaluation of the hazards.

3 . Composition/information on ingredients

Name	CASnumber	%
Benzyl benzoate	120-51-4	13 - 30
Ethanol, 2,2',2''-nitrotris-, compound with .alpha.-(2,4,6-tris(2-phenylethenyl)phenyl)- omega.-hydroxypoly(oxy-1,2-ethanediyl) phosphate	105362-40-1	13 - 30

4 . First aid measures

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

4 . First aid measures

- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Notes to physician** : No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested.

5 . Fire-fighting measures

- Flash point** : Closed cup: >93°C (>199.4°F) [EC A.9 Flash-Point (closed cup)]
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
phosphorus oxides
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8 . Exposure controls/personal protection

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

Appearance

Physical state	: Liquid.		
Color	: Amber.		
Odor	: Sweet.		
pH	: 3 to 5		
Boiling/condensation point	: 100°C (212°F)		
Melting/freezing point	: <-40°C (<-40°F)		
Flash point	: Closed cup: >93°C (>199.4°F) [EC A.9 Flash-Point (closed cup)]		
Flammable limits	: Not available.		
Ignition Temperature (Deg C) : SIT > 450 *ASTM-D1929B	: 440 °C		
Auto-ignition temperature	: Not available.		
Oxidizing properties	: None.		
Vapor pressure	: Not available.		
Specific gravity	: Not available.		
Water solubility	: 50 g/l	25	deg C
Partition coefficient: n-octanol/water (log Kow)	: Not available.		
Viscosity	: Dynamic (room temperature): 55 to 85 mPa-s (55 to 85 cP)		
Density	: 1.07 to 1.08 g/cm ³		
Vapor density	: Not available.		
Evaporation rate (butyl acetate = 1)	: Not available.		

10 . Stability and reactivity

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 . Toxicological information

Acutetoxicity

Product/ingredient name	Test	Endpoint	Species	Result
Benzyl benzoate	-	LD50 Dermal	Rabbit	4448 mg/kg
	-	LD50 Oral	Rat	>2000 mg/kg
Ethanol, 2,2',2''-nitrilotris-, compound with .alpha.-(2,4,6-tris(2-phenylethenyl)phenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)phosphate	-	LD50 Dermal	Rat	2000 mg/kg
	Unknown guidelines	LD50 Oral	Rat	>4750 mg/kg

COLOR INTENSIFIER

11 . Toxicological information

	Not known			
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Irritation/Corrosion

Product/ingredient name	Test	Species	Result
Ethanol, 2,2',2''-nitrotris-, compound with .alpha.-(2,4,6-tris(2-phenylethenyl)phenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) phosphate	OECD 404 Acute Dermal Irritation/ Corrosion	Rabbit	Skin - Non-irritant.
	-	Rabbit	Eyes - Irritant

Conclusion/ Summary

- Skin** : Benzyl benzoate No additional information.
Ethanol, 2,2',2''-nitrotris-, Non-irritating to the skin.
compound with .alpha.-(2,4,6-tris(2-phenylethenyl)phenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) phosphate
- Eyes** : Benzyl benzoate No additional information.
Ethanol, 2,2',2''-nitrotris-, Irritating to eyes.
compound with .alpha.-(2,4,6-tris(2-phenylethenyl)phenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) phosphate
- Respiratory** : Benzyl benzoate No additional information.
Ethanol, 2,2',2''-nitrotris-, No additional information.
compound with .alpha.-(2,4,6-tris(2-phenylethenyl)phenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) phosphate

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Harmful if swallowed.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : Irritating to eyes.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Target organs** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.

COLOR INTENSIFIER**11 . Toxicological information**

Fertility effects : No known significant effects or critical hazards.

Medical conditions aggravated by over-exposure

None known.

12 . Ecological information

Environmental effects : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Readily biodegradable Water polluting material. May be harmful to the environment if released in large quantities.

Aquaticecotoxicity

Product/ingredient name	Test	Endpoint	Exposure	Species	Result
UNIVADINE DIF NEW Benzyl benzoate	- OECD 209 Activated Sludge, Respiration Inhibition Test	Acute IC50	3 hours	Bacteria	>100 mg/l
		Acute IC50	3 hours	Bacteria	>500 mg/l
Ethanol, 2,2',2''-nitrotris-, compound with .alpha.-(2,4, 6-tris(2-phenylethenyl) phenyl)-.omega.-hydroxypoly (oxy-1,2-ethanediyl) phosphate	- Unknown guidelines Not known	Acute LC50	96 hours Semi- static	Fish	1 to 10 mg/l
		Acute LC50	96 hours	Fish	>500 mg/l
		Acute LC50	96 hours	Fish	>100 mg/l

Persistenceanddegradability

Product/ingredient name	Test	Period	Result
UNIVADINE DIF NEW Benzyl benzoate	OECD 303A Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units	28 days	80 to 90 %
	-	28 days	>60 %

Conclusion/Summary : Eliminated by biodegradation and/or adsorption onto effluent treatment sludge.

Ethanol, 2,2',2''-nitrotris-, Not readily biodegradable.
compound with .alpha.-(2,
4,6-tris(2-phenylethenyl)
phenyl)-.omega.-
hydroxypoly(oxy-1,
2-ethanediyl) phosphate

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
UNIVADINE DIF NEW Benzyl benzoate	- -	- -	Readily Readily

Bioaccumulativepotential

12 . Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Benzyl benzoate Ethanol, 2,2',2''-nitritoltris-, compound with .alpha.-(2,4, 6-tris(2-phenylethenyl) phenyl)-.omega.-hydroxypoly (oxy-1,2-ethanediyl) phosphate	3.9 <3	- -	high low

Other adverse effects : No known significant effects or critical hazards.

Other ecological information

BOD5 : 317 mgO2/g

COD : 1335 mgO2/g

TOC : 64.4 %

Organohalogen content : 0 %

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14 . Transport information

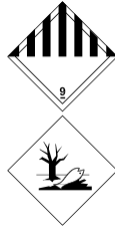
Proper shipping name

DOT : Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE). Marine pollutant







TDG : Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE). Marine pollutant

IMDG : Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE). Marine pollutant

IATA : Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE)

Regulatory information	UN number	Classes	PG*	Label	Additional information
DOT Classification	UN3082	9	III		Only regulated in Bulk.

14 . Transport information

TDG Classification	UN3082	9	III	 	-
IMDG Class	UN3082	9	III	 	Emergency schedules (EmS) F-A, S-F
IATA-DGR Class	UN3082	9	III	 	Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only Quantity limitation: 450 L Packaging instructions: 964

PG* : Packing group

15 . Regulatory information

United States

HCS Classification : Irritating material

U.S. Federal regulations

TSCA 8(b) inventory : **United States inventory (TSCA 8b)**: All components are listed or exempted.

TSCA 5(a)2 final : No ingredients listed.

significant new use rule (SNUR)

TSCA 5(e) substance consent order : No ingredients listed.

TSCA 12(b) export notification : No ingredients listed.

SARA 311/312 : Immediate (acute) health hazard

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : No ingredients listed.

Clean Air Act - Ozone Depleting Substances (ODS) : This product does not contain nor is it manufactured with ozone depleting substances.

15 . Regulatory information

SARA 313 : No ingredients listed.

CERCLA Hazardous substances : No ingredients listed.

Stateregulations

PENNSYLVANIA - RTK : Dipropylene glycol

California Prop 65 : This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Internationalregulations

Canada

WHMIS (Canada) : Class D-2B: Material causing other toxic effects (Toxic).

CEPA DSL : At least one component is not listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Internationallists

- Australia inventory (AICS)**: At least one component is not listed.
- China inventory (IECSC)**: All components are listed or exempted.
- Japan inventory**: All components are listed or exempted.
- Korea inventory**: At least one component is not listed.
- Malaysia Inventory (EHS Register)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: At least one component is not listed.
- Philippines inventory (PICCS)**: At least one component is not listed.
- Taiwan inventory (CSNN)**: Not determined.

16 . Other information

Label requirements : CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Hazardous Material Information System (U.S.A.) :

Health	2
Flammability	1
Physical hazards	0
Personal protection	X

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :



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Date of issue : 7/5/2013.

16 . Other information

Date of previous issue : 7/5/2013.

Version : 3

✔ Indicates information that has changed from previously issued version.

Noticetoreader

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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