

SAFETY DATA SHEET

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

1.1 Product identifier

Product name: 3-D Transfer Plasticizer

Additional identification

Chemical name: 1[2-(benzoyloxy)propoxy]propan-2-yl benzoate
CAS-No.: 27138-31-4

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

Identified uses: Plasticizer

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Motion Picture F/X Company

2923 Thornton Ave Burbank, CA 91504

818-563-2366

Visit our website at www.motionpicturefx.com

1.4 Emergency telephone number:

INFOTRAC 24-Hour Number 1800-535-5053 or +1-352-323-3500 (outside USA)

SECTION 2: Hazards identification

LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL

SECTION 3: Composition/information on ingredients

3.1 / 3.2 Substances / Mixtures

General information:

Chemical name	Concentration	Additional identification	Notes
dipropylene glycol dibenzoate	90 - 100%	CAS-No.: 27138-31-4 EC No.: 248-258-5	
benzoate esters	0 - 10%	proprietary	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.
Skin contact:	Wash with soap and water. Get medical attention if symptoms occur.
Ingestion:	Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: No known chronic or acute health risks.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:	None known.
Treatment:	Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards: None known.

5.1 Extinguishing media

Suitable extinguishing media: Water spray. Dry chemical. Carbon Dioxide. Foam.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture: None known.

5.3 Advice for firefighters

Special Fire Fighting Procedures: None known.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear appropriate personal protective equipment.

6.2 Environmental precautions: Avoid release to the environment.

6.3 Methods and material for containment and cleaning up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large Spillages: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container closed.

7.3 Specific end use(s):

Plasticizer

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2 Exposure controls

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information:

Eye bath. Washing facilities.

Eye/face protection:

It is a good industrial hygiene practice to minimize eye contact.

Skin protection	
Hand protection:	It is a good industrial hygiene practice to minimize skin
Other:	contact. No data available.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
Hygiene measures:	Observe good industrial hygiene
Environmental Controls:	practices. No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical State:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	ester
Odor Threshold:	No data available.
pH:	No data available.
Freezing Point:	-20 °C
Boiling Point:	decomposes
Flash Point:	192 °C (closed cup)
Evaporation Rate:	Not determined.
Flammability (solid, gas):	Not applicable
Flammability Limit - Upper (%)—:	No data available.
Flammability Limit - Lower (%)—:	No data available.
Vapor pressure:	0.00016 Pa (25 °C)
Vapor density (air=1):	11.8
Specific Gravity:	1.12 (20 °C)
Solubility(ies)	
Solubility in Water:	0.00869 g/l (20 °C)
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	log Pow: 3.9
Autoignition Temperature:	Not applicable
Decomposition Temperature:	Thermal stability not tested. Low stability hazard expected at normal operating temperatures.
Viscosity:	99.1 mm ² /s (20 °C)

Explosive properties: Not classified
Oxidizing properties: Not classified

SECTION 10: Stability and reactivity

10.1 Reactivity: None known. Materials containing similar structural groups are normally stable.

10.2 Chemical stability: **Not** fully evaluated.

10.3 Possibility of hazardous reactions: None known.

10.4 Conditions to avoid: None at ambient temperatures.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: None known.

Ingestion: None known.

Skin contact: None known.

Eye contact: None known.

11.1 Information on toxicological effects

Acute Toxicity

Oral

Product: No data available.

Specified substance(s)

dipropylene glycol dibenzoate Oral LD-50: (Rat): 3,914 mg/kg

benzoate esters No data available.

Dermal

Product: No data available.

Specified substance(s)

dipropylene glycol dibenzoate Dermal LD-50: (Rat): > 2,000 mg/kg

benzoate esters No data available.

Inhalation

Product: **No data available**

<p>Specified substance(s) dipropylene glycol dibenzoate benzoate esters</p>	<p>LC50 (Rat, 4 h): > 200 mg/I</p> <p>No data available.</p>
Repeated dose toxicity	
<p>Product:</p> <p>Specified substance(s) dipropylene glycol dibenzoate benzoate esters</p>	<p>No data available.</p> <p>NOAEL (Rat, in feed, 90 d): 1,000 mg/kg No data available.</p>
Skin corrosion/irritation:	
<p>Product:</p> <p>Specified substance(s) dipropylene glycol dibenzoate benzoate esters</p>	<p>No data available.</p> <p>(Rabbit, 4 h): none</p> <p>No data available.</p>
Serious eye damage/eye irritation:	
<p>Product:</p> <p>Specified substance(s) dipropylene glycol dibenzoate benzoate esters</p>	<p>No data available.</p> <p>(Rabbit): Slight</p> <p>No data available.</p>
Respiratory or skin sensitization:	
<p>Product:</p> <p>Specified substance(s) dipropylene glycol dibenzoate benzoate esters</p>	<p>No data available.</p> <p>Skin Sensitization:, (Guinea Pig) - non-sensitizing No data available.</p>
Germ cell mutagenicity	
<p>In vitro</p> <p>Product:</p> <p>Specified substance(s) dipropylene glycol dibenzoate benzoate esters</p>	<p>No data available.</p> <p>Mutagenicity - Mammalian, : negative +/- activation Chromosomal aberration, : negative +I-activation Mutagenicity - Bacterial, : negative +/- activation No data available.</p>

In vivo		
Product:	No data available.	
Specified substance(s)		
dipropylene glycol dibenzoate	No data available.	
benzoate esters	No data available.	
Carcinogenicity		
Product:		
Specified substance(s)		
dipropylene glycol dibenzoate		
benzoate esters	No data available.	
Reproductive toxicity		
Product:		
Specified substance(s)		
dipropylene glycol dibenzoate	No data available.	
benzoate esters	No data available.	
Specific target organ toxicity - single exposure		
Product:	No data available.	No data available.
Specified substance(s)		
dipropylene glycol dibenzoate	No data available.	
benzoate esters	No data available.	
Specific target organ toxicity - repeated exposure		
Product:	No data available.	
Specified substance(s)		
dipropylene glycol dibenzoate	No data available.	
benzoate esters	No data available.	
Aspiration hazard		
Product:		
Specified substance(s)		
dipropylene glycol dibenzoate	No data available.	
benzoate esters	No data available.	
Other adverse effects:	No data available.	

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product:	No data available.
Specified substance(s) dipropylene glycol dibenzoate	LC-50 (Fish, 96 h): 3.7 mg/I
benzoate esters	No data available.

Aquatic invertebrates

Product:	No data available.
Specified substance(s) dipropylene glycol dibenzoate	LL50 (daphnid, 48 h): 19.3
benzoate esters	mg/I No data available.

Chronic Toxicity

Fish

Product:	No data available.
Specified substance(s) dipropylene glycol dibenzoate	No data available.
benzoate esters	No data available.

Aquatic invertebrates

Product:	No data available.
Specified substance(s) dipropylene glycol dibenzoate	No data available.
benzoate esters	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Specified substance(s) dipropylene glycol dibenzoate	LL50 (Alga, 72 h): 4.9 mg/I
benzoate esters	No data available.

12.2 Persistence and degradability

Biodegradation

Product:	No data available.
Specified substance(s) dipropylene glycol dibenzoate	87 % (28 d, Ready Biodegradability: CO2 Evolution Test) Readily biodegradable

benzoate esters	No data available.
Biological Oxygen Demand:	
Product	No data available.
Specified substance(s)	BOD-5: 650 mg/g
dipropylene glycol	
dibenzoate	
benzoate esters	No data available.
Chemical Oxygen Demand:	
Product	No data available.
Specified substance(s)	2,230 mg/g
dipropylene glycol	
dibenzoate	
benzoate esters	No data available.
BOD/COD ratio	
Product	No data available.
Specified substance(s)	
dipropylene glycol	No data available.
dibenzoate	No data available.
benzoate esters	No data available.
12.3 Bioaccumulative potential	
Product:	No data available.
Specified substance(s)	No data available.
dipropylene glycol	
dibenzoate	
benzoate esters	No data available.
12.4 Mobility in soil:	
	No data available.
Known or predicted distribution to environmental compartments	
dipropylene glycol dibenzoate	3.6 (Measured)
benzoate esters	No data available.
12.5 Results of PBT and vPvB assessment:	
dipropylene glycol dibenzoate	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria
benzoate esters	No data available.
12.6 Other adverse effects:	
	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal Methods: Dispose of waste and residues in accordance with local authority requirements. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT

Class not regulated

*IMDG - International Maritime Dangerous Goods
Code Class not regulated*

IATA

Class not regulated

SECTION 15: Regulatory information

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

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

WHMIS (Canada) Status: noncontrolled

US EPCRA (SARA Title III) Section 313 - Toxic Chemical List

NONE

OSHA: nonhazardous

TSCA (US Toxic Substances Control Act): All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): All components of this product are listed on AICS or otherwise comply with NICNAS.

ECL (Korean Toxic Substances Control Act): All components of this product are listed on the Korean inventory or otherwise comply with the Korean Toxic Substances Control Act.

Philippines Inventory (PICCS) : All components of this product are listed on the Philippine inventory or otherwise comply with PICCS.

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

SECTION 16: Other information

HMIS® Hazard Ratings: Health - 1, Flammability - 1, Chemical Reactivity - 0

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

Training information: No data available.

Issue Date: 02/13/2012

SDS No:

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