SAFETY DATA SHEET

1. Identification

Product identifier	Di-n-hexyl phthalate		
Other means of identification			
Item	N-11596		
CAS number	84-75-3		
Recommended use	For Laboratory Use Only		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	Chem Service, Inc. 660 Tower Lane West Chester, PA 19380 United States		
Telephone	Toll Free	800-452-9994	
	Direct	610-692-3026	
Website E-mail	www.chemservice.com info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	
	Chemtrec outside US	+1 703-527-388	7
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Reproductive toxicity		Category 1B
Environmental hazards	Hazardous to the aquatic endexistence hazard	nvironment, acute	Category 1
	Hazardous to the aquatic ellong-term hazard	nvironment,	Category 1
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	May damage fertility or the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.		
Precautionary statement			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.		
Response	If exposed or concerned: G	et medical advice/a	attention. Collect spillage.
Storage	Store locked up.		

Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard(s) not otherwise None known.

100% of the substance consists of component(s) of unknown acute inhalation toxicity.

3. Composition/information on ingredients

Substances

Disposal

Supplemental information

classified (HNOC)

Chemical name	Common name and synonyms	CAS number	%
Di-n-hexyl phthalate		84-75-3	100
4. First-aid measures			
nhalation	Move to fresh air. Call a physician if symptoms	s develop or persist.	
Skin contact	Wash off with soap and water. Get medical at	tention if irritation develops and	persists.
Eye contact	Rinse with water. Get medical attention if irrita	tion develops and persists.	
ngestion	Rinse mouth. Get medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.		
ndication of immediate nedical attention and special reatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observatior Symptoms may be delayed.		under observation.
General information	IF exposed or concerned: Get medical advice/ (show the label where possible). Ensure that r involved, and take precautions to protect them attendance.	nedical personnel are aware of t	he material(s)
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbo	on dioxide (CO2).	
Jnsuitable extinguishing nedia	Do not use water jet as an extinguisher, as thi	s will spread the fire.	
Specific hazards arising from he chemical	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		n case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.		
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other involve	ed materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep peo appropriate protective equipment and clothing authorities should be advised if significant spil see section 8 of the SDS.	during clean-up. Ensure adequa	ate ventilation. Loca
Methods and materials for containment and cleaning up	This product is miscible in water. This materia Water Act and should be prevented from conta systems which lead to waterways.		
	Large Spills: Stop the flow of material, if this is possible. Absorb in vermiculite, dry sand or ea recovery, flush area with water.		
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean surfac	e thoroughly to
Environmental precautions	Never return spills to original containers for re- Avoid release to the environment. Inform appr environmental releases. Prevent further leaka drains, water courses or onto the ground.	opriate managerial or superviso	ry personnel of all
7. Handling and storage			
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.		
Conditions for safe storage,	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).		

8. Exposure controls/personal protection

Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Good general ventilation 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	
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves.	
Other	Use of an impervious apron is recommended.	
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid Liquid.
Color	Colorless
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-72.4 °F (-58 °C)
Initial boiling point and boiling range	653 °F (345 °C)
Flash point	379.4 °F (193.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.000002 kPa (77 °F (25 °C))
Vapor density	11.5
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Very slightly soluble
Partition coefficient (n-octanol/water)	6.82
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.01 g/ml
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Molecular formula	C20-H30-O4
Molecular weight	334.5 g/mol

Oxidizing properties	Not oxidizing.
Specific gravity	1.01 - 1.02 at 20 °C

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Not known.	
Product	Species	Test Results
Di-n-hexyl phthalate (CAS 84-75-3	3)	
Acute		
Dermal		
LD50	Rabbit	20000 mg/kg
Oral		00000 #
LD50	Rat	29600 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
Not listed. OSHA Specifically Regulate Not listed.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.1001-1053) ogram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	May damage fertility or the unborn child.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	

12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects.		
Product		Species	Test Results
Di-n-hexyl phthalate (CAS 84	4-75-3)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 0.18 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales prom	nelas) >0.1 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of this substance.		
Bioaccumulative potential			
Partition coefficient n-octa 6.82	nol / water (I	og Kow)	
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideration	ons		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
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).		
Contaminated packaging			ue, follow label warnings even after container is pproved waste handling site for recycling or

14. Transport information

DOT	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Di-n-hexyl phthalate), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	8, 146, 173, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Di-n-hexyl phthalate)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

0	ther information	Allowed with restrictions.		
	Passenger and cargo aircraft	Allowed with restrictions.		
	Cargo aircraft only	Allowed with restrictions.		
IMDG	N number	UN3082		
	N proper shipping name		RDOUS SUBSTANCE, LIQUID, N.O.S. (Di-n-hexyl phthalate),	
Т	ansport hazard class(es)			
	Class Subsidiant risk	9		
Pa	Subsidiary risk acking group	-		
	nvironmental hazards			
_	Marine pollutant	Yes		
	mS pecial precautions for user	F-A, S-F Read safety instructions, SDS	and emergency procedures before handling.	
Trans Annex	port in bulk according to (II of MARPOL 73/78 and C Code	Not established.		
DOT;	ATA; IMDG			
Marino	e pollutant			
<				
Gener	al information	IMDG Regulated Marine Pollu	utant. DOT Regulated Marine Pollutant.	
15. R	egulatory information	C C		
	deral regulations		Chemical" as defined by the OSHA Hazard Communication	
То	oxic Substances Control A		ubstance is on the TSCA 8(b) inventory and is designated "act	tive".
	TSCA Section 12(b) Exp	ort Notification (40 CFR 707,	Subpt. D)	
	Not regulated.			
		Plans, Chemicals of Concern	Phthalates Action Plan	
C	Di-n-hexyl phthalate(ERCLA Hazardous Substar	,	Phinalates Action Plan	
	Di-n-hexyl phthalate (CAS ARA 304 Emergency releas	84-75-3)	Listed.	
-	Not regulated.			
0	SHA Specifically Regulated Not listed.	l Substances (29 CFR 1910.1	001-1053)	
Materi	al name: Di-n-hexyl phthalate			SDS L

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Reproductive toxicity

categories

SARA 313 (TRI reporting) Not regulated.

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.

Clean Water Act (CWA)Toxic pollutantSection 112(r) (40 CFR68.130)Safe Drinking Water ActNot regulated.(SDWA)

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Di-n-hexyl phthalate (CAS 84-75-3)

California Proposition 65



WARNING: This product can expose you to Di-n-hexyl phthalate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Di-n-hexyl phthalate (CAS 84-75-3) Listed: December 2, 2005

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Di-n-hexyl phthalate (CAS 84-75-3)	Listed: December 2, 2005
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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply 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).

16. Other information, including date of preparation or last revision

Issue date	09-27-2014
Revision date	04-12-2023
Version #	06

NFPA ratings	Health: 0 Flammability: 0 Instability: 0
Disclaimer	Chem Service, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.
	Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.
	This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.
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Revision information	Physical & Chemical Properties: Multiple Properties