



Chemsynergy Inc.
1100 Burloak Drive
Suite 101
Burlington, ON. L7L 6B2
Canada

PRODUCT: Dibutyl Phthalate

CODE: DBP

SECTION 01: IDENTIFICATION

Supplier Identifier..... Chemsynergy, Inc.
1100 Burloak Rd
Suite 101
Burlington
ON
Canada
L7L 6B2
905-827-4900

Product Identifier..... Dibutyl Phthalate

Product Codes(s)..... DBP

Emergency Information..... In case of emergency during transport call: Chemtrec (Outside US) 1-703-527-3887.
Chemtrec (US) 1-800-424-9300. Canutec (Canada) (613-996-6666).

Recommended Use..... Material is for industrial use only. Keep away from children.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.

Hazard Classification..... Reproductive Toxicity Category 1 H360. Health Hazards Not Otherwise Classified — Category 1.

Hazard Statement(s)..... H360 May damage fertility or the unborn child. Endocrine Disruptor.

Precautionary Statements Prevention..... P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response..... P308+P313 IF exposed or concerned: Get medical advice/attention.

Storage..... P405 Store locked up.

Disposal..... P501 Dispose of contents/container in accordance with local, regional, national or international regulations.

Proof of Classification..... This product has been classified in accordance with the WHMIS 2015 Hazardous Products Regulation and US OSHA regulations (29CFR 1910.1200 Hazard Communication 2012).

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Di-N-Butyl Phthalate	84-74-2	100

SECTION 04: FIRST-AID MEASURES

Eye Contact..... Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.

Skin Contact..... Take off all contaminated clothing and launder before reuse. Wash exposed areas with plenty of soap and water. Get medical advice if irritation occurs.

Ingestion..... Rinse mouth with water and give plenty of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. If symptoms persist, get immediate medical attention.

Inhalation..... If breathing, remove victim to fresh air. If breathing is difficult, have a trained professional give oxygen. If not breathing, have a trained professional provide artificial respiration. Get medical advice.

Additional Information..... Provide general supportive measures and treat symptomatically. In the event of an accident ensure that medical authorities are provided with a copy of this safety data sheet.

PRODUCT: Dibutyl Phthalate**CODE: DBP****SECTION 05: FIRE-FIGHTING MEASURES**

Extinguishing Media.....	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. . Do not use a solid water stream as it may scatter and spread the fire.
Hazardous Combustion Product(s).....	Smoke, toxic fumes, carbon monoxide and carbon dioxide.
Special Fire Fighting Procedures.....	Self-contained breathing apparatus with full face piece operated in positive pressure mode. Full protective clothing must be worn in case of fire.
Unusual Fire / Explosion Hazards.....	Use water spray to cool fire-exposed containers and structures. Either the liquid vapour may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.
Flammability Classification (OSHA 29 CFR 1910.106)	Not Classified.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions.....	Ensure adequate ventilation. Isolate area. Wear protective equipment and keep unprotected and unnecessary personnel away. Keep upwind of the spill/leak. Avoid breathing mist or vapor.
Emergency Procedures.....	Eliminate all sources of ignition. Do not allow spills to enter drains, sewers or waterways.
Methods and Materials for Containment...	Stop the flow of material, if this is without risk, dike area to contain the spill. Recover by absorbing spilled material with inert material and transfer to a suitable container for disposal.
CERCLA Reportable Quantity.....	If a spill, in the USA, in excess of the EPA reportable quantity occurs, report this to the National Response Center in the United States 1-800-424-8802.

SECTION 07: HANDLING AND STORAGE

Handling Precautions.....	Do not breathe mist or vapour. Do not get in eyes, on skin or clothing. Keep away from food and drink. Employees should wash their hands and face before eating or drinking. No smoking.
Storage Requirements.....	Store container locked up in a cool, dry and well-ventilated place. Keep away from heat, sparks and open flame; no smoking.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Di-N-Butyl Phthalate	5 mg/m3	Not Available	5 mg/m3	Not Available	5 mg/m3
Exposure Controls					
Clothing.....					Wear impervious protective clothing to prevent skin contact. Wear appropriate chemical resistant gloves. Wear impervious safety non-slip shoes.
Eye.....					Wear safety glasses with side shields or goggles and a full face shield.
Respiratory.....					Not required if engineering controls maintain airborne contaminant concentrations at a level which is adequate to protect worker health. When protection is necessary use a NIOSH approved self-contained breathing apparatus.
Other.....					Emergency eye wash and safety shower should be available.
Engineering Controls.....					Use process enclosure, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....	Liquid. Clear. Colourless.
Odour.....	Odourless.
Odour Threshold.....	Not Available.
pH.....	Not Available.
Melting / Freezing Point	-35°C (-31°F).
Initial Boiling Point / Boiling Range.....	340°C (644°F).
Flash Point, Method.....	185°C (365°F).
Auto Ignition Temperature.....	432°C (809.6°F).
Upper Flammable Limit (% Vol).....	Not Available.
Lower Flammable Limit (% Vol).....	0.4.
Evaporation Rate.....	Very Low.
Vapour Pressure.....	0.00001 - 0.000014 mmHg. @ 25°C (77°F).
Vapour Density (Air =1).....	9.58.
Relative Density / Specific Gravity.....	1.05. @ 20°C (68°F).
Solubility.....	13 mg/l. Soluble in most other organic solvents and oils. Very Soluble in ethanol, diethyl ether, acetone and benzene.
Partition Coefficient N-octanol / water	4.7.
Viscosity.....	Not Available.
Volatiles (% wt/wt).....	Not Available.

PRODUCT: Dibutyl Phthalate**CODE: DBP****SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Volatile Organic Compounds (VOCs)..... Not Available.
 Molecular Formula..... C16H22O4.
 Molecular Weight (g/mol)..... 278.35 g/mol.

SECTION 10: STABILITY AND REACTIVITY

Reactivity conditions to avoid..... Keep away from heat, sparks and open flames.
 Chemical stability..... Stable under normal conditions.
 Possibility of hazardous reactions..... Will not occur.
 Hazardous decomposition products..... Carbon Monoxide and carbon dioxide.
 Incompatibility materials..... Chlorine. Metals. Strong alkalis. Strong acids. Strong oxidizing agents.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Di-N-Butyl Phthalate	>15.68 mg/l 4hr (Rat, Inhalation)	>20,000 mg/kg (Rabbit, Dermal) 8,000 mg/kg (Rat, Oral)
Routes of Exposure		
Effects of Acute Exposure.....	No significant effects or critical hazards known. .	
Effects of Chronic Exposure.....	No significant effects or critical hazards known. .	
Carcinogenicity of Material.....	This product does not contain any substances which are listed on IARC, Proposition 65, OSHA or NTP as a carcinogen.	
Reproductive Toxicity of Material.....	This product contains a substance which is listed on Proposition 65 as reproductively toxic. .	
Mutagenicity.....	Not expected to be mutagenic in humans.	
Aggravated Medical Conditions.....	None known.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... EC50 2.99 mg/l 48 hr Waterflea. static test NOEC - Pseudokirchneriella subcapitata (green algae) - 0,39 mg/l - 10 d. static test NOEC - Pseudokirchneriella subcapitata (green algae) - 0,39 mg/l - 10 d. static test EC50 - Pseudokirchneriella subcapitata (green algae) - 0,75 mg/l - 10 d. static test LC50 - Lepomis macrochirus (Bluegill sunfish) - ca. 0,48 mg/l - 96 h. EC50 0.75 mg/l 96hr (Algae, Pseudokirchneriella Subcapitata).
 Biodegradability..... Readily Biodegradable. Biodegradability Result: 81 %.
 Bioaccumulation..... Bioaccumulation Pimephales promelas (fathead minnow) - 11 d - 0,0348 mg/l(dibutyl phthalate). Bioconcentration factor (BCF): 2.165 Remarks: Does not bioaccumulate.
 Mobility in Soil..... Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
 Other Adverse Effects..... Do not allow to enter waters, wastewater, or soil. The initial threshold screening level (ITSL) for dibutyl phthalate (DBP) is 50 µg/m3 (8-hour average).

SECTION 13: DISPOSAL CONSIDERATIONS

Safe Handling for Disposal..... Handle in accordance with good industrial hygiene and safety practice. Empty containers must be handled with care due to product residue.
 Methods of Disposal..... Dispose of empty containers in accordance with federal, provincial, and local regulations. Do not allow product to enter drains, sewers or any other water source.
 RCRA..... If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14: TRANSPORT INFORMATION

TDG Classification
 UN Code..... UN3082.
 Shipping Name..... Environmentally Hazardous Substances, Liquid, N.O.S. (dibutyl phthalate).
 Class..... Class 9.
 Packaging Group..... PG III. This product is TDG exempt per section 1.45.1.
 DOT Classification..... UN3082 Environmentally Hazardous Substances, Liquid, N.O.S. (dibutyl phthalate). Class 9, PG III.
 IATA Classification..... UN3082 Environmentally Hazardous Substances, Liquid, N.O.S. (dibutyl phthalate). Class 9, PG III.
 IMDG Classification..... UN3082 Environmentally Hazardous Substances, Liquid, N.O.S. (dibutyl phthalate). Class 9, PG III.

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SECTION 14: TRANSPORT INFORMATION

Proof of Classification..... This product has been classified in accordance with Part 2 of the Transportation of Dangerous Goods regulations and 49 CFR.

SECTION 15: REGULATORY INFORMATION

CEPA Status..... All components of this product are listed on the DSL.
TSCA Status..... All components of this product are listed on the TSCA.
EINECS Status..... All components of this product are listed on the EINECS.
OSHA SARA Title III
SARA 311/312..... Not Listed.
SARA 302..... Not Listed.
SARA 313..... Listed.
OSHA SRS (29CFR 1910.1001)..... Not Listed.
CERCLA Reportable Quantity (40CFR ... 10.
117.302)
EPA Hazardous Air Pollutants..... Not Listed.
California Proposition 65..... Listed.

SECTION 16: OTHER INFORMATION

Prepared By..... Chemsynergy's Regulatory Department. www.chemsynergyinc.com
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