

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

CAS Number: 27138-31-4 (DPGDB)
Product Name: Thamesflex NK 2498 (DPGDB)
Revision Date: Nov 08, 2018 **Date Printed:** Jan 06, 2021
Version: 1.0 **Supersedes Date:** N.A.
Manufacturer's Name: Thames River Chemical Corp.
Address: 5230 Harvester Road Burlington, ON, CA, L7L 4X4
Emergency Phone: CHEMTREC (800) 424-9300
Information Phone Number: 905-681-5353
Fax: 905-681-5377
Product/Recommended Uses: For laboratory or industrial use only.

SECTION 2) HAZARDS IDENTIFICATION

Classification

Not a hazardous substance or mixture according to GHS (Globally Harmonized System).
 Not classified

Pictograms

None

Signal Word

No signal word available.

Precautionary Statements - General

No precautionary statement available.

Precautionary Statements - Prevention

No precautionary statement available.

Precautionary Statements - Response

No precautionary statement available.

Precautionary Statements - Storage

No precautionary statement available.

Precautionary Statements - Disposal

No precautionary statement available.

Acute toxicity of 12% of the mixture is unknown

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0027138-31-4	Propanol, oxybis-, dibenzoate	88%
Proprietary	benzoate esters	12%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality or to reflect batch to batch variation.

SECTION 4) FIRST-AID MEASURES

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

Skin Contact

Wash off with soap and plenty of water. Consult a physician.

Ingestion

If swallowed, call a Poison Control Centre or doctor immediately. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

Rinse mouth.

Most Important Symptoms and Effects, Both Acute and Delayed

No data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, water fog, dry chemical, carbon dioxide

Unsuitable Extinguishing Media

No data available.

Specific Hazards in Case of Fire

No data available.

Fire-fighting Procedures

Firefighters should wear self contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind; keep out of low areas. Evacuate residents who are downwind of fire.

Special Protective Actions

Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

5.3 Advice for firefighters

Firefighters should wear NIOSH/MSHA approved self-contained, breathing apparatus and full protective clothing

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Stop the leak, if possible. Remove all ignition sources. Ventilate the area involved. Absorb with an inert material and put the spilled material in an appropriate waste disposal container

Recommended Equipment

Wear appropriate personal protective equipment.

Personal Precautions

Avoid contact with skin, eye or clothing.

Environmental Precautions

No data available.

Methods and Materials for Containment and Cleaning up

For small spills add absorbent(soil may be used in the absence of other suitable materials) And use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use. Do not get in eyes, on skin or on clothing. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited.

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits.

Storage Room Requirements

Store in a cool, dry place. Store in a tightly closed container.

7.2 Conditions for safe storage, including any incompatibilities

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing. Keep away from sources of ignition.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids

Skin Protection

Use chemical resistant gloves when skin contact could occur. Gauntlet-type gloves may be required if forearm contact could occur. Examples of acceptable glove materials include: viton, natural rubber, polyvinyl chloride, nitrile rubber. Glove suitability and breakthrough time will differ depending on specific use conditions.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls

Maintain air concentrations below occupational exposure levels and flammable limits. Use local explosion-proof exhaust ventilation for operations stoat produce a mist, vapour or fume.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	CANsmg	CANsppm	CANtmg	CANtppm	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)	OSHA Skin designation	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH TLV Basis
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	ACGIH Carcinogen	ACGIH Notations
No applicable chemical	-	-

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	9.56 lb/gal
Specific Gravity	1.12
Appearance	Clear, nearly colorless to light Yellow
Odor Description	Mild Ester Odor
Odor Threshold	N/A
pH	N/A
Melting/Freezing Point	N/A
Low Boiling Point	Decomposes at > 270 without boiling °C
High Boiling Point	N/A
Flash Point	CLOSED CUP: 192 °C
Vapor Pressure	N/A
Vapor Density	11.8 (Air =1)
Evaporation Rate	Lower than 1. Compare to butyl acetate
Upper Explosion Level	N/A
Lower Explosion Level	N/A
Water Solubility	N/A
Coefficient Water/Oil	N/A
Viscosity	Approx 110cP @ 25°C

SECTION 10) STABILITY AND REACTIVITY

Reactivity

No data available.

Stability

Stable under normal storage and handling conditions.

Conditions to Avoid

Avoid contact with incompatible materials.

Hazardous Reactions/Polymerization

Hazardous polymerization will not occur.

Incompatible Materials

Strong oxidizing agents and alkalis.

Hazardous Decomposition Products

No data available.

SECTION 11) TOXICOLOGICAL INFORMATION

Likely Route of Exposure

Inhalation, ingestion, skin absorption

Acute Toxicity

Acute Oral LD50 (Rat): 5,313 mg/kg, practically non-toxic
Acute Dermal LD50(Rat): >2,000 mg/kg, No more than slightly toxic
Acute Inhalation LC50 (mist): >200 mg/kg practically non-toxic
Based on available data, the classification criteria are not met.

Aspiration Hazard

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization

No allergic skin reaction was reported in guinea pigs after repeated skin contact (intradermal and topical) using the Magnusson and Kligman method.

Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation

A single instillation into the eye of the rabbit elicited transient very slight conjunctival irritation only.

Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation

No dermal reaction was reported following a single semi-occlusive application to skin for 4 hours.

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Based on available data, the classification criteria are not met.

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

Ecological Test: No observed effect level: 1000ppm, earthworm

EC50> 10mg/l Bacteria (*Pseudomonas putida*) 10 mg/l was the highest attainable concentration that could be prepared due to the limited solubility of the test material in water and auxiliary solvent and the limitations imposed by the addition of nutrient solutions and bacterial suspension to the test material stock solution.

Based on available data, the classification criteria are not met.

Mobility in Soil

No data available.

Bio-accumulative Potential

No data available.

Bioaccumulative potential

Persistence and Degradability

Is considered readily biodegradable in the CO₂ evolution test. The mean CO₂ production by mixtures was equivalent to 6% of the theoretical value (TCO₂, 106.4 mg CO₂) after 2 days of incubation and 62% after 12 days: mean level of 87% degradation was achieved by the end of the test on Day 29

The BOD₅ was 34% of its COD. Substance are generally considered readily biodegradable in the Closed Bottle test if the ration of BOD₅: COD or ThOD is >50.

Therefore cannot be considered readily biodegradable in the screening test.

Is considered ultimately biodegradable under anaerobic conditions in the biogas production test. The level of anaerobic biodegradation, based on biogas measurements alone, was equivalent to 40% by Day 60 and the total level of biodegradation (dissolved inorganic carbon plus biogas) was calculated to be 46% of the theoretical level. The total level of biodegradation by Day 120 was 75% of the initial nominal carbon level (12 mg C/culture) and 90% of the level (10 mg C/culture) calculated assuming carbon was removed when samples were taken for dissolved inorganic content analysis

Other Adverse Effects

No data available.

Results of the PBT and vPvB assessment

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste management should be in full compliance with federal, state and local laws.

Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, provincial and local laws.

SECTION 14) TRANSPORT INFORMATION

	Transport Canada Information	U.S. DOT Information
UN number:	Not Regulated	Not Regulated
Proper shipping name:	N/A	N/A
Hazard class:	Not Applicable	Not Applicable
Packaging group:	Not Applicable	Not Applicable
Hazardous substance (RQ):		No Data Available
Marine Pollutant:	No Data Available	No Data Available
Note / Special Provision:	No Data Available	No Data Available
Toxic-Inhalation Hazard:		No Data Available

Transport in bulk (according to Annex II of MARPOL 73/78):	No Data Available	
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SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0027138-31-4	Propanol, oxybis-, dibenzoate	88%	DSL,TSCA,EU_EC_Inventory

SECTION 16) OTHER INFORMATION

Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CANsmg or CANspmm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg or CANTppm - Canadian Time Weighted Average in mg/L or in ppm; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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