



QWATRO
1870 ALBION ROAD, UNIT 3
ETOBICOKE ON. M9W 5T2
CANADA
416-746-4226

PRODUCT: BIOERASE BULK

SECTION 01: IDENTIFICATION

Supplier identifier..... Qwatro
1870 Albion Road, Unit 3
Etobicoke ON. M9W 5T2
Canada
(866) 488-2788
Product identifier..... BIOERASE BULK
Product code..... Q4118
Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).

SECTION 02: HAZARD IDENTIFICATION



Hazard classification..... Flammable Liquids — Category 4. Eye Irritation — Category 2A. Skin Irritation — Category 2. Specific target organ toxicity - single exposure - Category 3 (Respiratory system). Reproductive Toxicity — Category 1B.
Signal word..... DANGER.
Hazard statement..... H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H360 May damage fertility or the unborn child.
Precautionary statements
Prevention..... P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required.
Response..... P308+P313 IF exposed or concerned: Get medical advice/attention. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage..... P405 Store locked up. P233 Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool.
Disposal..... P501 Dispose of contents/container to an approved waste disposal plant.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Dimethyl Adipate	627-93-0	40-45
Dimethyl Glutarate	1119-40-0	30-35
N-Methylpyrrolidone	872-50-4	17-22
D-limonene	5989-27-5	4-6

SECTION 04: FIRST-AID MEASURES

Routes of exposure
Inhalation..... Remove to fresh air. If irritation persists, consult a physician.
Ingestion..... Never give anything by mouth to an unconscious person. Drink a glassful of water. Call a doctor or poison control center.
Skin contact..... Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and launder before reuse. If irritation develops, get medical aid.

PRODUCT: BIOERASE BULK**SECTION 04: FIRST-AID MEASURES**

Eye contact..... Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical aid.

Most important symptoms and effects, both acute and delayed . The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media..... Foam, Carbon dioxide (CO₂), Dry chemical.

Hazardous combustion products..... Carbon oxides. Nitrogen oxides (NO_x). Harmful vapours. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment and precautions This product is combustible at high temperatures. Cool closed containers exposed to fire with water spray. Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information..... Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Eliminate all sources of ignition. Ventilate area if indoors. Use personal protective clothing.

Environmental precautions..... Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

Methods and materials for containment and cleaning up For large amounts: Pump off product. . Absorb with suitable material and remove with sparkless shovel and/or scoop. Contaminated absorbent material may pose the same hazards as the spilled product. .

SECTION 07: HANDLING AND STORAGE

Handling precautions..... Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. . Avoid contact with skin and eyes. Containers should be grounded when being emptied.

Storage needs..... Keep in a dry, cool and well-ventilated place. Keep containers tightly closed when not in use.

Materials to avoid..... Keep away from oxidizing agents.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH REL
	TWA	STEL	PEL	STEL	
Dimethyl Adipate	not available	not available	not available	not available	not available
Dimethyl Glutarate	not available	not available	not available	not available	not available
N-Methylpyrrolidone	not available	not available	not available	not available	not available
D-limonene	no data available	no data available	no data available	no data available	no data available
Engineering controls.....	Good general ventilation (typically 10 air changes per hour) should be used. .				
Individual protection measures					
Eye/type.....	Safety glasses with side-shields.				
Gloves/ type.....	Wear chemical resistant protective gloves.				
Respiratory/type.....	Generally not required. Wear respiratory protection if ventilation is inadequate.				
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Wear clean long legged, long sleeved work clothes.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid.

Color..... colorless to light yellow.

Odour..... pungent odour.

Odour threshold..... no data available.

pH..... no data available.

Melting point (°C)..... not applicable.

Freezing point (°C)..... no data available.

Initial boiling point (°C)..... 160.

Flash point (°C), Method..... 80 (Pensky-Martens).

Evaporation rate..... no data available.

Upper flammability limit (% vol)..... 6.

Lower flammability limit (% vol)..... 0.8.

Vapour pressure (mm Hg)..... <1 mm Hg.

PRODUCT: BIOERASE BULK**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Vapour density (air=1).....	> 1.
Relative density/Specific Gravity.....	1.09.
Water solubility.....	insoluble.
Solubility in other solvents.....	no data available.
Partition coefficient — n-octanol/water.....	no data available.
Auto ignition temperature (°C).....	> 200 °C.
Thermal decomposition temperature.....	no data available.
Viscosity.....	thin liquid.

SECTION 10: STABILITY AND REACTIVITY

Reactivity.....	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability.....	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions.....	No hazardous reactions when stored and handled according to instructions. The product is chemically stable.
Conditions to avoid.....	Exposure to air or moisture over prolonged periods. Prolonged heat/light/air exposure.
Incompatible materials.....	Strong oxidizing agents.
Hazardous decomposition products.....	Toxic gases/fumes may be given off during burning or thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Dimethyl Adipate	>10.7 mg/l (Inhl. rat, 4 h)	1,920 mg/kg (oral -rat)
Dimethyl Glutarate	6.1 mg/l (Inhl. rat, 4 h)	8,191 mg/kg (oral-rat)
N-Methylpyrrolidone	>5.1 mg/l (Inhl. rat, 4 h)	3,600 mg/kg (oral-rat); 8,000 mg/kg (dermal-rabbit)
D-limonene	>20 mg/l (inhl-rat, 4h)	4,400 mg/kg (oral-rat); >5,000 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation		
Ingestion		
Skin contact		
Eye contact		
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.	
Acute inhalation toxicity.....	Acute toxicity estimate : > 20 mg/l. Virtually nontoxic by inhalation. Method: calculation method.	
Skin corrosion/irritation.....	Result: Severe skin irritation.	
Serious eye damage/eye irritation.....	Result: Severe eye irritation.	
Respiratory or skin sensitisation.....	Non-sensitizing.	
Specific target organ toxicity (STOT) single exposure	Respiratory tract irritation.	
Aspiration hazard.....	No aspiration hazard expected.	
Chronic toxicity/effects		
Specific target organ toxicity (STOT) repeated exposure	No known significant effects or critical hazards.	
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.	
Reproductive toxicity.....	Reproductive and developmental studies in rats exposed to N-Methylpyrrolidone showed effects including reduced fertility (male and female and reduced mean offspring body weight at birth and throughout lactation. Risk is significantly reduced when impervious gloves are used. Inhalation of NMP is not likely unless it is heated or sprayed.	
Germ Cell Mutagenicity.....	No known significant effects or critical hazards.	
Remarks.....	The product has not been tested. The statement has been derived from the properties of the individual components.	
Symptoms of Exposure.....	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	May be dangerous for the environment. No data is available on the product itself. Should not be released into the environment.
Persistence and degradability.....	The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

PRODUCT: BIOERASE BULK**SECTION 12: ECOLOGICAL INFORMATION**

Bioaccumulative potential..... No data available.
Mobility in soil..... No data available.
Other adverse effects..... No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods
Waste disposal of substance..... Dispose of in accordance with national, state and local regulations.
Container disposal Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14: TRANSPORT INFORMATION

TDG classification..... Not classified as a dangerous good under transport regulations.

SECTION 15: REGULATORY INFORMATION

WHMIS regulatory status..... This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.

SECTION 16: OTHER INFORMATION

Disclaimer..... The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Prepared by: CanChem Consultant
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