

**Science Kit
& Boreal
Laboratories**

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MSDS No. DD0004
Effective Date: November 7, 2001

MATERIAL SAFETY DATA SHEET

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Decanoic acid	416-984-3000
Chemical Synonyms	N/A	NFPA
Formula	CH ₃ (CH ₂) ₈ COOH	HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4
CAS No.	334-48-5	WHMIS HEALTH 1 FLAMMABILITY 1 REACTIVITY 0

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Decanoic acid	100%	N/A
WARNING!		

SECTION III PHYSICAL DATA

Melting Point (°C)	31-32°C	Specific Gravity (H ₂ O = 1)	0.893
Boiling Point (°C)	268-270°C	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	15 mm @ 160°C	Evaporation Rate (-1)	N/A
Vapor Density (Air=1)	N/A	Solubility in Water: Insoluble.	
Appearance & Odor	Off-white waxy crystalline solid; rancid odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	109°C	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO ₂ , alcohol foam, or water spray.				

Flammability and Explosion Hazards

Dust dispersed in air becomes explosive when exposed to ignition source.

TDG Not a TDG controlled material.

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SECTION V REACTIVITY DATA

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Strong oxidizers, reducing agents and bases.
	No		
Hazardous Decomposition Products	Carbon oxides.		
Reactive under what conditions	Avoid generation of airborne dust.		

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Inhalation. Ingestion.
TLV	Not available.
Toxicity for animals	Not available.
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: None known.
Acute effects on humans	Harmful if inhaled, swallowed or absorbed through skin. Contact may cause irritation to the skin and eyes.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep container in a cool, well ventilated place. Keep away from heat. Keep away from incompatible materials.
Precautions	Avoid contact with skin and eyes. Do not breathe dust. Use with adequate ventilation. Do not ingest. If ingested, seek immediate medical attention.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Wash spill area with soap and water.
Protective Clothing	Gloves, safety glasses, lab coat, dust respirator.

SECTION VIII FIRST AID MEASURES

Specific first aid measures	Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Consulter une médecin ou le centre de poison commande immédiatement. Induisez le vomissement seulement s'informé par le personnel médical approprié. Eye contact: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.
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SECTION IX PREPARATION OF THE MSDS

Rev. No. 1 Date November 7, 2001 Approved Michael Raszeja