

MATERIAL SAFETY DATA SHEET

*This Material Safety Data Sheet complies with the Canadian Controlled Product Regulations.
Abbreviations used: N/ap., Not applicable, N/av., Not available, N/est., Not established, TLV, Threshold Limit Value,*

SECTION 1 - IDENTIFICATION

PRODUCT IDENTIFIER:	NOFLEX DIGESTOR
PRODUCT USE:	Sewage Treatment, Organic waste Break up, Odor neutralizer
SUPPLIER:	Gemini Packaging Limited 150-12071 Jacobson Way, Richmond, British Columbia, Canada, V6W 1L5 Telephone: (604) 278-3455 Emergency Telephone: (604-813-4688) collect 24 Hrs.

SECTION 2 - COMPOSITION

HAZARDOUS INGREDIENTS	% (W/W)	CAS NUMBER	LD50	LC50	EXPOSURE LIMITS
Sodium Carbonate Peroxyhydrate	40-60	15630-89-4	2000 mg/kg (oral/rat)	3290 mg/m ³ (inhalation, rat, 4hr)	10 mg/m ³ (ACGIH, inhalable particulate), 3 mg/m ³ (ACGIH, respirable particulate)
Ethoxylated Propoxylated C ₈₋₁₀ alcohols	1-5	68603-25-8	2000 mg/kg (oral/rat)	N/est.	N/est.
Sodium Carbonate	10-20	497-19-8	4090 mg/kg (oral/rat)	1150 mg/m ³ (inhalation, male rat, 4hr)	10 mg/m ³ (ACGIH, inhalable particulate), 3 mg/m ³ (ACGIH, respirable particulate)
Styrene/MA copolymer, sulfaonated	3-5	68037-40-1	N/av.	N/av.	N/av.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This product is a oxidizer. Causes severe eye irritation, with dust being irritating to the respiratory tract.

EFFECTS OF SHORT-TERM (ACUTE) EXPOSURE:

INHALATION: Product is irritating to the nose, throat and respiratory tract.

SKIN CONTACT: May cause symptoms of skin irritation such as reddening, swelling, rash, scaling, or blistering. Excessive contact may cause drying by absorption of moisture and oils.

EYE CONTACT: Causes severe eye irritation, with contact causing burns. Dust will also cause abrasive irritation to the eye.

INGESTION: This product causes irritation, a burning sensation of the mouth and throat and abdominal pain.

EFFECTS OF LONG-TERM (CHRONIC) EXPOSURE:

Prolonged contact with eyes may cause permanent eye lesions. Prolonged skin contact may cause dermatitis.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing eye, skin, respiratory tract disorders may be aggravated by exposure.

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SECTION 4 - FIRST AID MEASURES

INHALATION: Move victim to fresh air. Give artificial respiration, if indicated. Obtain immediate medical attention.

SKIN CONTACT: Remove contaminated clothing, and wash affected area thoroughly with soap and water. If an irritation develops or persists, seek medical attention.

EYE CONTACT: Flush contaminated eye(s) with lukewarm, gently flowing water for at least 20 minutes while holding eyelids open. Take care not to contaminate unaffected eye. If irritation persists repeat the flushing process. Do not transport victim until the recommended flushing time has been achieved unless flushing can continue during transport. Obtain immediate medical attention.

INGESTION: Never give anything by mouth if victim is unconscious, rapidly losing consciousness or convulsing. Rinse mouth thoroughly with cold water and give ½ to 1 glass of water to dilute ingested material. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have victim lean forward, head down, to reduce risk of aspiration. Obtain immediate medical attention.

GENERAL COMMENTS: All first-aid procedures should be reviewed by a physician familiar with the product and its conditions of use in the workplace. Physician should treat this symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:	N/ap.	LOWER FLAMMABILITY LIMITS:	N/ap.	SENSITIVITY TO MECHANICAL IMPACT:	Not expected to be sensitive
AUTOIGNITION TEMPERATURE:	N/ap.	UPPER FLAMMABILITY LIMITS:	N/ap.	SENSITIVITY TO STATIC DISCHARGE:	Not expected to be sensitive

EXTINGUISHING MEDIA: Use media suitable to control surrounding fire.

FIRE FIGHTING INSTRUCTIONS: Fire-exposed containers should be kept cool by spraying water. Excessive heat may cause containers to explode, and release of product in this manner will usually cause a more intense fire due to release of oxygen. Strong oxidizer which can, with contact with combustibles, cause fire. Spilled material will cause floors and walkways to become slippery. Firefighters must use self-contained breathing apparatus and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: Product decomposes at 55° Celsius with release of oxygen.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD INDEX:

HEALTH: 2 - Causes temporary and only minor injury, **FLAMMABILITY:** 0 – Stable and will not burn unless heated excessively. **REACTIVITY:** 1 - Normally stable, but can become unstable at elevated temperatures and pressures. Reacts with water with some release of heat. **SPECIFIC HAZARDS:** Oxidizer.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION: Avoid direct contact with material. Minimize airborne spreading of the material. If material is airborne, wear respirator. Wear protective clothing and gloves.

ENVIRONMENTAL PRECAUTIONS: Prevent bulk release into waterways and sewers.

REMEDIATION MEASURES: For spills, a vacuum is preferred to dry sweeping due to elimination of dusting. Remove combustibles. If container is leaking, place in over pack immediately to minimize loss to environment. Notify applicable government authority if release is a reportable quantity and could adversely affect the environment.

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SECTION 7 - HANDLING AND STORAGE

HANDLING: Use good housekeeping practices. Avoid contamination of product with water. Minimize practices that could cause dusting. Use in a well ventilated area. Mechanical ventilation should be corrosion and explosion proof.

STORAGE: Store away from combustibles and incompatible materials in tightly closed containers. Keep containers in a cool area away from sparks and flames.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation required. Worker exposure to dust must be kept as low as reasonably achievable.

RESPIRATORY PROTECTION: No respiratory protection is warranted under normal use conditions.

EXPOSURE LIMITS: See Section 2.

SKIN PROTECTION: Wear resistant gloves and work clothes covering arms and legs.

EYE AND FACE PROTECTION: Use chemical safety goggles.

OTHER: Emergency showers and eye-wash stations should be readily available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White, odourless powder	MELTING POINT:	Decomposes at 55° Celsius
ODOUR:	None	BOILING POINT:	N/ap.
pH:	10.4 to 10.6 (1% aqueous solution)	CRITICAL TEMPERATURE:	N/ap.
VAPOUR PRESSURE:	N/ap.	RELATIVE DENSITY:	1.0 to 1.2
SOLUBILITY:	Soluble in water	PARTION COEFFICIENT: n-OCTANOL/WATER	N/av.
VAPOUR DENSITY:	N/ap.	EVAPORATION RATE:	N/ap.

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Normally stable.

HAZARDOUS POLYMERIZATION: Will not undergo hazardous polymerization.

INCOMPATIBILITY: Reducing agents. Alkali metals and their hydroxides. Avoid oxidizable materials such as oils, greases, and powdered metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes at 55° Celsius releasing oxygen.

SECTION 11 - TOXICOLOGICAL INFORMATION

ROUTE(S) OF ENTRY: Inhalation (minor), Ingestion (minor), Eye contact (major), Skin contact(minor)

ACUTE EXPOSURE:

No specific animal data is available for this product.

CHRONIC EXPOSURE:

No specific animal data is available for this product.

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SECTION 11 - TOXICOLOGICAL INFORMATION (con't)

IRRITANCY:	SENSITIZATION:
Expected to cause skin, eye, respiratory and gastrointestinal irritation.	Not reported.
MUTAGENICITY:	REPRODUCTIVE TOXICITY:
Not reported.	Not reported.
TERATOGENICITY:	CARCINOGENICITY:
Not reported.	Not listed as a carcinogen by ACGIH, IARC or OSHA
POTENTIAL FOR ACCUMULATION:	SYNERGISTIC PRODUCTS:
Not expected to accumulate.	None known.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY: May be harmful to aquatic life in large quantities.

ENVIRONMENTAL FATE: This product has considerable solubility and mobility in water and non-significant adsorption into soil.

Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lake, streams, ponds, or rivers.

SECTION 13 - DISPOSAL CONSIDERATIONS

DEACTIVATING CHEMICALS: Carefully dilute the product with water and allow the solution to naturally degrade.

WASTE DISPOSAL METHODS: Place used and contaminated material and packaging into suitable containers and dispose of as controlled waste. Review and follow all local, provincial, and national regulations.

SECTION 14 - TRANSPORT INFORMATION

ICAO TECHNICAL INSTRUCTIONS, IMDG CODE: Oxidizing Solids, N.O.S. Class 5.1, UN 1479, P.G. II

US HAZARDOUS MATERIALS REGULATIONS: Oxidizing Solids, N.O.S. Class 5.1, UN 1479, P.G. II

CANADIAN TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: Oxidizing Solids, N.O.S. Class 5.1, UN 1479, P.G. II

SECTION 15 - REGULATORY INFORMATION

CANADIAN FEDERAL REGULATIONS:

CEPA, DOMESTIC SUBSTANCES LIST: All ingredients are listed.

WHMIS CLASSIFICATION: C, D2B

SECTION 16 - OTHER INFORMATION

PREPARATION DATE: October 27, 1999

Revision #1 March 20, 2010

Revision # 2 Jan 10, 2012-----Dave Stranks

Revision # 3 Jan 1, 2014 ---Dave Stranks

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DECLARATION: This Material Safety Data Sheet meets or exceeds all the requirements of the Canadian Controlled Product Regulations.

