

SECTION 1: Identification and Company Details

Product Name: DinoClean

Product Code:

Manufacturer/Supplier: Dinoflex Group LP

Address: P.O. Box 3309, 5590 - 46th Ave. SE
Salmon Arm, B.C.
V1E 4S1 Canada

Emergency Phone: Canutec (613) 996-6666

Product Information: (877) 428-9937

Recommended Use: Floor Cleaner

SECTION 2: Hazard(s) Identification

OSHA / HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Signal Word: Warning

Hazard Statements:

CAUTION !

MAY BE HARMFUL IF SWALLOWED

Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing.

Contains material that can cause target organ damage and cancer. Risk of cancer depends on duration and level on exposure. Wash thoroughly after handling.

ACUTE EFFECTS: **Routes of Entry-** Skin, and Eye

Eyes- Irritating to eyes. Inflammation of the eye is characterized by redness, watering, and itching. Continue to rinse for 10 minutes. Seek medical attention if irritation persists.

Skin- Flush affected skin with plenty of water. For severe exposures, get under safety shower after removing clothing, then get medical attention. For lesser exposures, seek medical attention if irritation develops or persists after the area is washed.

Inhalation- Harmful by inhalation.

Ingestion- Harmful if swallowed.

CHRONIC EFFECTS:

Contains material that causes damage to kidneys.

One of these ingredients has been shown to cause cancer in lab animals when given high doses. Relevance to humans has not been established.

3. HAZARDS IDENTIFICATION

HAZARDOUS INGREDIENTS	CAS #	% Range
SODIUM NITRILOTRIACETATE	18662-53-8	~ 1 - 5

HAZARD SUMMARY (OSHA) :	Irritating to eyes, respiratory system and skin. Inhalation levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to respiratory system.
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ROUTES OF ENTRY:	Ingestion, skin contact, eye contact, inhalation.
MEDICAL CONDITIONS AGGRAVATED:	Asthma, other respiratory disorders (bronchitis, emphysema, bronchial hyperactivity), skin allergies, eczema.

4. FIRST AID MEASURES

EYES:	Immediately flush eyes with plenty of water, preferably luke warm, for at least 15 minutes while holding eyelids apart. Seek medical attention if irritation persists.
INHALATION:	Remove individual to fresh air. Administer oxygen or artificial respiration as needed by trained personnel. Obtain medical attention.
SKIN CONTACT:	If clothing comes in contact with the product, the clothing should be removed immediately and should be laundered before re-use. Wash skin thoroughly with soap and water. For severe exposures, get under safety shower after removing clothing, then get medical attention. For lesser exposures, seek medical attention if irritation develops or persists after the area is washed.
INGESTION:	Call a physician immediately. DO NOT induce vomiting. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABILITY SUMMARY:	This material supports combustion. During a fire, MDI vapors and irritating toxic gases may be generated by thermal decomposition or combustion.
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FLASH POINT:	Closed cup-n/a
AUTOIGNITION TEMPERATURE:	No Data
UPPER FLAMMABLE LIMIT, % IN AIR:	No Data

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LOWER FLAMMABLE LIMIT, % IN AIR:

No Data

EXTINGUISHING MEDIA:

Use foam, dry chemical or water spray when fighting fires. If water is used, very large quantities are required. Contain run off water with temporary barriers.

FIRE FIGHTING INSTRUCTIONS:

In case of fire, use normal fire fighting equipment including a NIOSH approved self-contained breathing apparatus (SCBA). Use water to cool fire-exposed containers to minimize the risk of rupture.

COMBUSTION PRODUCTS:

Carbon oxides, carbon dioxide, and other unidentifiable organic compounds

6. ACCIDENTAL RELEASE MEASURES

SPILL/LEAK PROCEDURES:

Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Cover spill with absorbent material, such as sand, sawdust or sweeping compound. Shovel into unsealed containers, transport to well-ventilated area (outside) Clean-up floor area with water, letting stand for at least 15 minutes.

PERSONAL PROTECTION:

Additional protective clothing must be worn to prevent contact with this chemical. Items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, chemically impermeable suit, and self-contained breathing apparatus.

7. HANDLING AND STORAGE

HANDLING PROCEDURES:

Avoid skin and eye contact. Do not breathe vapors or aerosols if generated. Warning signs (irritation of the eyes, nose or throat, or odor) are not adequate to prevent chronic exposure from inhalation.

STORAGE REQUIREMENTS:

Store in a cool, dry and well ventilated place, away from direct sunlight. Isolate from incompatible materials. Store in a tightly closed container.

SHELF LIFE:

Six months

STORAGE TEMPERATURE:

Store at 18 - 30 °C for quality reasons

SPECIAL SENSITIVITY:

If container is exposed to high heat, 204°C (400°F) it can be pressurized and possibly rupture. MDI reacts with water to form CO₂ gas. This gas can cause sealed containers to expand and possibly rupture.

8. RECOMMENDED PERSONAL PROTECTION

EYE PROTECTION:

Liquid chemical goggles or full face shield. Contact lenses

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	should not be worn. Eyewash stations should be accessible to the work area.
RESPIRATORY PROTECTION:	Use with adequate ventilation. Observe WHMIS regulations for respirator use, when poor ventilation conditions.
SKIN PROTECTION:	Chemically resistant gloves (butyl rubber, nitrile rubber, or Nitrile). Safety showers should be accessible to the work area.
VENTILATION REQUIREMENTS:	Local exhaust should be used to maintain levels below the TLV whenever chemicals are processed, heated, or spray applied. For spray applications, an air-supplied respirator must be worn. Standard reference sources regarding industrial ventilation should be consulted for guidance about adequate ventilation.
ADDITIONAL REQUIREMENTS:	An eye wash and safety shower must be provided in immediate work area. Exposure levels must be monitored by accepted monitoring techniques to ensure that the TLV is not exceeded.
MEDICAL SURVEILLANCE:	Medical surveillance of all employees who handle or come in contact with chemical is recommended. These should include pre-employment and periodic medical examinations with respiratory function tests (FEV, FVC as a minimum). Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with chemical.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Clear /Red
ODOR:	Fresh clean
ODOR THRESHOLD:	No Data
SPECIFIC GRAVITY @ 22°C:	1.02
VAPOR PRESSURE:	No Data
EVAPORATION RATE:	1
BOILING POINT:	104C (219.2F)
FREEZING POINT:	0C
PH:	9-10
SOLUBILITY IN WATER:	Easily



10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY SUMMARY:

Stable under normal conditions. Not sensitive to mechanical shock or to static discharge.

HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	Contact with water. High temperatures.
CHEMICAL INCOMPATIBILITY:	Oxidizing materials, acids, and alkalis.
DECOMPOSITION PRODUCTS:	None under normal conditions.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY:	This chemical is known or reported to be carcinogenic. Classified Group 2B, Possible for humans by IARC; Classified Group 2, Reasonably anticipated to be carcinogen by NTP.
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PRODUCT ANIMAL TOXICOLOGY: (ACETIC ACID, NITRILOTRISODIUM SALT, MONOHYDRATE)

ORAL LD50 VALUE (RAT):	1450 mg/Kg
DERMAL LD50 VALUE:	No Data
INHALATION LC50 VALUE:	No Data

12. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

13. TRANSPORT INFORMATION

WATER (IMDG):	Not Regulated
CANADIAN TRANSPORTATION OF DANGEROUS GOODS (TDG):	Not Regulated



14. REGULATORY INFORMATION

WHMIS CLASSIFICATION: D-2A: Material causing other toxic effects. (very toxic)

15. OTHER INFORMATION

MSDS PREPERATION DATE: June 8, 2015
PREPARED BY: Don Campagnolo
MAJOR REFERENCES:

REVISED BY:
SECTION(S) REVISED: Format

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