



BIO ORGANIC SOLUTIONS

MATERIAL SAFETY DATA SHEET

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Date Revised: 06/03/2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: HDX-99 (HEAVY DUTY ALKALINE CLEANER/DEGREASER)

General or Generic ID: PROPRIETARY MIXTURE

Product Use: CLEANER/DEGREASER

Prepared By: Safety Department

Emergency Telephone: (613) 992-4624

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	TLV	CAS Number	% (by weight)
Tetrasodium ethylene Diamine Acetate	N/A	64-02-8	1.0 – 5.0
Sodium Xylene Sulfonate	N/A	1300-72-7	3.0 – 7.0
Sodium Meta Silicate Anhydrous	2mg/kg	6834-92-0	1.0 – 5.0
Nonyl Phenol Ethoxylate	N/A	9016-45-9	3.0 – 7.0
Sodium Hydroxide	N/A	1310-73-2	1.0 – 5.0
Sodium Silicate	N/A	1344-09-8	1.0 – 5.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Eye irritant. Can cause redness.

Skin

Can cause skin irritation. Burns can result from prolonged contact

Ingestion

Low acute oral toxicity. May cause nausea, diarrhea, abdominal cramps.

Inhalation

Inhalation not likely. Mists may cause upper respiratory tract irritation.

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. Get medical attention.

Skin

In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

Ingestion

Seek immediate medical attention. **DO NOT induce vomiting.** Vomiting will cause further damage to the mouth and throat. If possible, do not leave individual unattended.

Inhalation

Remove individual away from exposure and into fresh air. Seek immediate medical attention. Keep person warm and quiet.

5. FIRE FIGHTING MEASURES**Flash Point**

No Data

Explosive Limit

No Data

Auto Ignition Temperature

No Data

Hazardous Products of Combustion

No Data

Fire and Explosion Hazards

No Data

Extinguishing Media

No Data

Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

6. ACCIDENTAL RELEASE MEASURES**Cleanup and disposal of Spills:**

Absorb with an inert absorbent. Shovel up into an appropriate closed container. (see Section 7: Handling and storage).

7. HANDLING AND STORAGE

Do not handle unless the safety precautions have been read and understood. Avoid skin and eye contact. Keep containers tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Eye Protection**

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses. (Consult your industrial hygienist).

Skin Protection

Wear impervious gloves (consult your safety equipment supplier). To prevent skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES**Boiling Point**

No Data

Point
No Data
Vapour Pressure
No Data
Vapour Density
No Data
Specific Vapour Density
No Data
Specific Gravity
No Data
Evaporation Rate
No Data
Solubility in Water
Complete
Appearance
Clear red solution
State
Liquid
Physical Form
Homogeneous Solution
Colour
Red
Odour
Bland
pH
13 – 14

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.
Hazardous Decomposition
Smoke
Oxides of carbon
Chemical Stability
Stable.
Incompatibility
Oxidizing Agent.

11. TOXICOLOGICAL INFORMATION

LD 50 and LC 50 Data – **Tetrasodium ethylene Diamine Acetate** (64-02-8)
Oral LD50 (rat): 0.6 g/kg
Dermal LD50 (rabbit): N/A
Inhalation LC50 (rat): N/A
LD 50 and LC 50 Data – **Sodium Xylene Sulfonate** (1300-72-7)
Oral LD50 (rat): N/A
Dermal LD50 (rabbit): N/A
Inhalation LC50 (rat): N/A
LD 50 and LC 50 Data – **Sodium Meta Silicate Anhydrous** (6834-92-0)
Oral LD50 (rat): 1600 mg/kg
Dermal LD50 (rabbit): N/A
Inhalation LC50 (rat): N/A

LD 50 and LC 50 Data – **Nonoxynol-9** (9016-45-9)

Oral LD50 (rat): 710 mg/kg

Dermal LD50 (rabbit): 12.2 G/KG

Inhalation LC50 (rat): N/A

LD 50 and LC 50 Data – **Sodium Hydroxide** (1310-73-2)

Oral LD50 (rat): 365 mg/kg

Dermal LD50 (rabbit): N/A

Inhalation LC50 (rat): N/A

LD 50 and LC 50 Data – **Sodium Silicate** (1344-09-8)

Oral LD50 (rat): 1,600 mg/kg

Dermal LD50 (rabbit): N/A

Inhalation LC50 (rat): N/A

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with Local, Provincial and Federal Regulations.

14. TRANSPORT INFORMATION

TDG Information

Description:

Not Regulated

15. REGULATORY INFORMATION

Canadian Regulations

CEPA/DSL (Domestic Substances List) Status

The intentional ingredients of this product are listed.

WHMIS (Workplace Hazardous Materials Information System) Classification

CLASS D2B; E – Toxic Material - Corrosive Material

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.