

## User guide reduce the odor of solid waste

### Introduction

Over 2 billion tons of municipal solid waste are produced annually. Improper disposal can lead to adverse health outcomes, for example through water, soil and air contamination. Hazardous waste or unsafe waste treatment such as open burning can directly harm waste workers or other people involved in waste burning and neighbouring communities. Vulnerable groups such as children are at increased risk of adverse health outcomes. Poor waste collection leads to environmental and marine pollution and can block water drains. Resulting flooding and other standing waters in waste items favour cholera and vector-borne diseases such as malaria and dengue.



Degradation of waste at landfills and dumpyards generates gases like Ammonia ( $\text{NH}_3$ ), Hydrogen Sulfide ( $\text{H}_2\text{S}$ ),  $\text{SO}_x$ ,  $\text{NO}_x$ , Total Volatile Organic Compounds (TVOCs), Methane ( $\text{CH}_4$ ), Methyl Mercaptan, etc. therefore, it becomes mandatory for some odour management system to be in place for landfills and dumpyards. at significantly higher concentrations, harmful odours may have a direct effect on human health. It generally leads to vomiting, headaches, nausea, stress, anxiety, frustration, restriction in outdoor activities.

## What is Sept-X?

Sept-X has a proven capability to rapidly remove odor from newly deposited waste. When used in accordance with instructions, odor will be substantially reduced within minutes. In addition to the odor reduction, Sept-X will also help to improve the quality of the Leachate generated. The accelerated decomposition of the organic matter reduces volume of waste increasing cell density, leading to longer potential life and value of the asset.

Sept-X rapidly digests fats, protein, carbohydrate, cellulose, and a wide range of pollutants leaving the environment in natural balance

## Dosages

Dosages are low and easily applied using existing equipment For example 1kg of Sept-X will treat 30 -50 tons of waste.

## Usage Instructions:

Spray an active mixture of Sept-X daily to newly deposited waste, prior to the application of any daily cover in accordance with the following steps.

- 1) Recommend dosage of Sept-X - 3g/tonne of waste.
- 2) Open package and mix Sept-X in water tank. The amount of water needed depends on the site. There should be enough water to guarantee complete coverage of all new received waste material during all hours of operation. Use a minimum of 50 L per kg of Sept-X.
- 3) To Facilitate dosing / Spraying of Sept-X on the waste, the pump outlet from the water tank should be connected to a hose and a variable range coarse spray nozzle should be used.

*Sept-X will only deliver the desired effects if it is in contact with the received solid waste. Total coverage is needed for best results. Note: For sites receiving less than 30 tons/day, a minimum of 100g Sept-X should be mixed into 100L of water and used within 48 hours.*

## Warning:

*Sept-X uses a coarse natural cereal bran as a carrier for its powerful biology. This bran is insoluble in water and will clog fine misting mechanisms. Positive displacement pumps and the use of filters are recommended.*

## Benefits of Use:

- Rapid removal of odor emissions
- Effective on a wide range of volatile organic compounds (VOCs)
- Increases cell density
- Removes rather than masks odors
- Improves leachate quality to assist in meeting discharge standards requirements
- Cost effective dosage regime
- 100% natural, biodegradable and non-chemical
- Safe and easy to use
- Harmless to humans and the environment

## Compatibility:

Sept-X will not operate effectively in the presence of high levels of chemical products such as disinfectants. It is recommended to discontinue the use of any chemical products 3 days prior to first using Sept-X

## Contact

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