

De-odoring agent to nebulize

Description **Hydrodor XC** is an anti-odor agent in the form of an aqueous solution of surfactants, fragrances and other odor neutralizing ingredients that prevent and hinder the formation of bad smell compounds due to biological degradation. One of the main applications is foreseen in air dispersion, e.g. as osmogenic barrier. **Hydrodor XC** is however NOT a masking agent: it does contain a neutralizing agent (Enviro-Chem Cx) that removes generated smells

Main Usage At the opposite of the masking agents replacing an odor by another one, **Hydrodor XC** acts chemically on the odors coming from solid or liquid waste. The product inhibits the proteins and sulphides decomposition reactions that prevent the creation of odors. The reduction of these volatile emissions is achieved by sequestering the odorous volatile molecules, thereby allowing the acid/base reactions, amines and peptide cross-linking, and chelation reactions to occur. Amine, hydrogen sulphides (H₂S) and mercaptans odors and therefore neutralized.

- Neutralization of smells generated in waste water treatment plants, dewatering sludge treatment, containers, waste bins and waste materials, etc.
- Osmogenic barriers to limit/hinder smell diffusion, a system typically used in landfills and waste processing plants.
- Road and surface sweeping and cleaning.
- Food industry, dairies, poultry industry, slaughterhouses, animal manures.

| Physical Characteristics | Characteristics | Specifications |
|--|-----------------|------------------------------------|
| | Physical aspect | |
| Density at 25°C | | 1,0 – 1,1 kg/l |
| pH | | 2,6 - 3,2 |
| Viscosity | | 1 mPa.s |
| Flash point | | N/A |
| Stability | | 2 years (min) in normal conditions |
| Composition | | |
| Mixing containing surfactants and perfumes | | |

Application and storage Hydrodor XC can be used as is or in diluted form. The dosage varies according to the type of smell source, its intensity and the given level of smell perception. Further indications of the appropriate dosage/dilution can be obtained through a simplified panel test in a smell-free test environment. A defined amount of smell sample is treated with Hydrodor XC until a clear identified, pleasant, honey/almond scent is perceived. When this scent becomes consistently perceivable, it can indicate the right dosage ratio.

Hydrodor XC is used in a nebulized way with adequate spraying equipment. For instance, it is used from a 0.5% concentration (1 liter of Hydrodor XC in 200 liters of water) to 2% concentration (1 liter of Hydrodor XC in 50 liters of water).

SOLID WASTES: **Hydrodor XC** should be used nebulized in the air in order to cover all odors in the direction (s) causing the troubles. The **Hydrodor XC** spray should create the most hermetic possible olfactory/osmogenic barrier.

TRANSFER STATION – CLOSE BUILDING: We shall use **Hydrodor XC** outside of the building, in order to prevent odors to come out, for instance, using a nebulization curtain above the doors, when they open. If the building is equipped with exhaust fans, one can nebulize **Hydrodor XC** in front of the fan (inside the building) so that the air going out is mixed with the product in the flow of air going through the fan.

SLUDGE BEDS FROM WASTE WATER TREATMENT: When the sludges are dried in a drying bed, a solution would be to create an olfactory barrier by nebulizing **Hydrodor XC** around the sludge beds, in a similar way than for solid wastes.

Incompatibility N/A

Health and safety The product is not dangerous, we refer however to the MSDS for further information.

Conditioning Hydrodor XC is available in 1000 kg IBCs and in 50 kg plastic canisters. It should be stored in a dry and cool place, avoid freezing.

Origin The product is manufactured in Italy