

LT WF5



Due to thirty years of experience, **Labiotech** is in a position to offer many solutions to the problem of air treatment in order to eliminate odors, chemical contaminants and dusts among others.

Labiotech designs, manufactures and tests its own equipment, and offers after-sale maintenance and assistance.

Labiotech designs and tests all the equipment offered, in order to guarantee the best possible result.

Odour neutralizers for direct/spray inoculation

LT WF5 is a concentrated liquid product ready to use that has been created to **neutralize bad smells produced from rests, industrial processes, tanks and zootechnical manure.**

LT WF5 is a specific product for industry and **suitable for the treatment of muds, fusion ground, fusion sands, fusion rests, dumpsters, hook lifts, manholes, floors.** The special blend of natural vegetal extracts (flower, fruits, plants, etc.) contained in **LT WF5** guarantees **immediate action, safety and efficiency in neutralizing bad smells** that develop from liquid or solid substances.

LT WF5 uses several chemical reactions (construction, combination, counteraction, and absorption) for the control and neutralization of bad smells.

Our research has developed the formulation to neutralize bad smells, it has combined it with other excipient substances and has created a practical formulation soluble in water. **LT WF5 can develop a deodorizing action that neutralizes bad smells completely, leaving the air clean and with a delicate natural fragrance.**

Mechanism of action

LT WF5 is a natural extract which neutralizes lots of bad smelling organic compounds, for instance in blends containing H_2S and NH_3 where it works as follows:

1. The process of **chemical decomposition of H_2S** occurs by chemical interaction of the amine functional group $R-NH_3$ that is:
$$R-NH_3 + H_2S \Rightarrow R-NH_3 + SH \Rightarrow R-NH_3 + SH + O_2 + H_2O \Rightarrow R-NH_3 + SO_4 + OH \Rightarrow R-NH_3 + SO_4 + OH \Rightarrow R-NH_3 + SO_4 + H_2O$$
in that reaction, the hydrogen sulphide is captured by the amino functional group. With oxygen, a non-volatile compound containing sulphate is then formed.
2. The process of **chemical decomposition of NH_3** is made per condensation by the functional acid group $R-COOH$ namely:
$$R-COOH + NH_3 \Rightarrow R-COONH_4$$
the ammonia is captured by the functional acid group $COOH$ and a no more volatile compound containing ammonium salt is formed.

LT WF5

LT WF5	Solution for direct/spray inoculation.
Usage	Shake before use. For dosages, refer to the table below. Apply LT WF5 directly on the source of the bad smell. If LT WF5 is diluted with water, distribute evenly over surfaces to be treated. Repeat the treatment regularly.
PROIND012	Concentrated product supplied in 10 l containers.

DOSAGE

Liquid treatment	Inoculate from 1 to 5 mL of LT WF5 pure for each m ³ of liquid to be treated.
Liquid muds treatment	Inoculate from 2 to 7 mL of LT WF5 pure for each m ³ of liquid muds to be treated.
Hopper/cumulus treatment	Measure from 0.5 to 5 mL of LT WF5 pure for each Ton of material to be treated. Dilute the quantity measured of LT WF5 in 10 parts of water and then spray evenly.
Muds/shovelled rests treatment	Measure from 2 to 10 mL of LT WF5 pure for each Ton of material to be treated. Dilute the quantity measured of LT WF5 in 10 parts of water and then spray evenly.
Manholes/tanks treatment	Measure from 0.5 to 7 mL of LT WF5 pure for each m ³ to be treated. Dilute the quantity measured of LT WF5 in 10 parts of water and then spray evenly.

INSTRUCTIONS - STORAGE

- Store in the original container, tightly closed and out of reach of children.
- Keep at temperatures ranging from 5° C to 35° C, and protect from cold and heat sources.
- Do not shallow, do not smoke or consume food or drink during use.
- Do not mix with any other product
- Wash with abundant water in case of contact with eyes or skin.
- Drink a large quantity of water in case of ingestion, and see a doctor.
- Never throw the product as such in sewerage, pits, drains or water streams.
- Avoid throwing the container after use, but dispose of it according to norms in force in the Country.

Advantages of the product

- **No alteration of washing water;**
- **No alteration of the treated matrix;**
- **Significant improvement of odor abatement efficiency;**
- **No installation costs;**
- **Minimum dosing;**
- **Easy to use and immediate action;**
- **As it is not a biological product, its efficiency is not affected by parameters such as temperature, wetness, intake of nourishing substances.**

