

## MIST-AIR ODOUR NEUTRALIZER

Manufactured by Mist-Air and used extensively throughout Europe for curing odour issues in waste recycling sites, storage bunkers, landfill sites, etc.

Aqueous fog on its own, absorbs many odorous gases and alcohols.

The water particles absorb airborne gas into a solute, which then sinks to the ground to naturally biodegrade. Once the gas is in a solute it is no longer available to be detected by the olfactory nerves in the nose.

The addition of a 0.25% solution of Mist-Air Odour Neutraliser to the fog reduces the surface tension of each water particle, and increases the natural absorbency by approx 400,000 times.

So adding Mist-Air Odour Neutraliser to the water before it is turned into fine fog, is all that is required to solve 90% of all odour problems .

**Completely** miscible in water, and guaranteed not to separate and block jets, circulation pipes or filters, preventing sludge in pipelines, water tanks and fittings, a problem which is associated with many essential oil based products.

Because there is such a diverse mixture of odorous gases present in the air it is inevitable that a few gases do not readily mix with water, so a masking agent is added to nullify the effects of these gases to the olfactory nerves.

Unfortunately many products on the market use such powerful masking agents that they cause more complaints than the odours they are trying to mask.

Mist-Air Odour Neutraliser is available with many trace scents including Eucalyptus, Apple, Cherry, Cut Grass, etc.

These are not overpowering, but a delicate blend of trace elements that cause no offence and simply distract the olfactory nerves

There are no COSHH implications with Mist-Air Odour Neutraliser, and it is harmless to animals, insects, humans, plant life, and aquatic life.

Neither does it cause sore eyes and burning throats associated with many deodorants and essential oil based products.

Supplied in 25 , or 1000 litre containers. Shelf life approx. 24 months.

## GASES ABSORBED BY MIST-AIR ODOUR NEUTRALISER

1,4,-Diaminobutane	$NH_2(CH_2)_4NH_2$	Crotyl Mercaptan	$CH_3CHCH_2SH$	Methane	$CH_4$
1-Propanethiol	$CH_3CH_2CH_2SH$	Dibutylamine	$(C_4H_9)_2NH$	Methylmine	$CH_3NH_2$
2-Methyl-2-Butanethiol	$(CH_3)_3CSH$	Diisopropylamine	$(C_3H_7)_2NH$	Nitrogen	$N_2$
Acetaldehyde	$CH_3CHO$	Dimethylamine	$(CH_3)_2NH$	Nitrogen Dioxide	$NO_2$ NOX
Allyl Thiol	$CH_2CHCH_2SH$	Dimethyl Sulphide	$(CH_3)_2S$	Pentanethiol	$CH_3(CH_2)_3CH_2SH$
Ammonia	$NH_3$	Diphenyl Sulphide	$(C_6H_5)_2S$	Pyridine	$C_5H_5N$
Ammonium Hydroxide	$NH_3$	Ethane	$C_2H_6$	Skatole	$C_9H_9N$
Argon	Ar	Ethanethiol	$C_2H_5SH$	Sodium Hydroxide	NaOH
Benzyl Thiol	$C_6H_5CH_2SH$	Ethylamine	$C_2H_5NH_2$	Sulphur Dioxide	$SO_2$
Butyl amine	$C_4H_9NH_2$	Ethylene	$C_2H_4$	Thiocresol	$CH_3C_6H_4SH$
Cadaverine	$H_2N(CH_2)_5NH_2$	Helium	He	Thiocresol	$CH_3C_6H_4SH$
Carbon Dioxide	$CO_2$	Hydrogen	$H_2$	Thiophenol	$C_6H_5SH$
Carbon monoxide	CO	Hydrogen Chloride	HCL	Toluene	$C_6H_5CH_3$
Chlorine	$Cl_2$	Hydrogen Fluoride	HF	Triethylamine	$(C_2H_5)_3N$
Chloro Phenol	$C_6H_4OHCl$	Hydrogen Sulphide	$H_2S$		
Chlorophenol	$C_6H_5O$	Indole	$C_8H_7NH$		



## Safety Data Sheet

To requirements of directive 91/155/EEC

<b>Product Name</b>	Mist-Air Odour Neutraliser	<b>Exposure controls &amp; personal protection</b>	
<b>Supply Company</b>	Mist-Air Environmental. PO Box 10, Oswestry, Shropshire SY10 9JF Tel : 01691 828 991/828487 Fax: 01691 828 499 Email: Info@Mist-Air.Co.Uk	Respiratory protection	Not necessary
<b>Emergency</b>	01691 828 487	Eye protection	Wear goggles
<b>Composition</b>	Sophisticated blend of surfactants CAS. No./N/A UN. No N/A	Hand protection	Wear gloves when handling concentrate
<b>Hazards</b>	Adverse health effects: Category H Innocuous	Industrial hygiene	No special precautions
<b>Risk phrases</b>	R22 Harmful if swallowed	<b>Physical &amp; Chemical properties</b>	
<b>Safety phrases</b>	S37/39 Wear suitable gloves and eye/face protection for handling the concentrate	Form	Liquid
<b>First Aid Measures for Concentrates</b>		Colour	Light straw
Inhalation	None	Change in physical state	None
Eye contact	Irrigate eyes with copious amounts of clean water. Seek medical advise is symptoms persist	Odour	Neutral or apple as requested.
Ingestion	Drink plenty of fresh water. Seek medical advise if symptoms persist.	Density/ bulk density	1.04 (H O=1)
Further information	Mist Air odour neutraliser is classed as innocuous, see attached Ref 1: Toxicology	Viscosity	N/A <sup>2</sup>
Fire fighting measures	Non flammable	Solubility	Complete in water
Accidental spillage	Hose down with copious amounts of water. No further action necessary.	pH value	6-8
Handling	Normal industrial standards	Flash point	None
Storage	Ambient temperatures	Ignition temperature	N/A
		Explosion limits	N/A
		Stability & reactivity	
		Thermal decomposition	N/A
		Hazardous thermal	N/A
		Decomposition products	N/A
		Hazardous reactions	N/A
		Toxicology information	See Ref 1 Toxicology. Non carcinogenic
		Ecological effects	
		Fish toxicity	N/A
		Invertebrate toxicity	N/A
		Biodegradation	Fully biodegradable
		Bioaccumulation potential	N/A
		Transport	Not listed as hazardous
		Disposal considerations	Do not put concentrate direct into water courses
		Regulatory information	Classification and labeling based on Directive 91/155/ECC
		Air contamination limits	None specified by UK Health & Safety Executive
		Other information	This product is intended for use in atmospheric odour removal.

## Toxicology Information

The product has full E.P.A. U.S.D.A. and U.S. Federal Hazardous Substances Act clearance to be used as an atmospherically dispersed Odour Control Agent. The product is currently being used in the following States: Miami, California, Washington State, Boston Penn., Texas, Tennessee, New York State, Oregon, Michigan, New Jersey. Widely used throughout Europe and UK, specifically for control of airborne odours from landfill, composting, and waste recycling activities.

**This product is NOT acutely toxic in all of the areas examined, and no hazard labeling is required.**

More specifically we have the following information for you:

In the area of primary **skin irritation** when tested as specified and at the concentrate supplied, this product induced a primary irritation score of 0.25 out of a possible score of 8. Operationally we define this product as having a potential to be slightly skin irritant but would rarely be irritating to people. No labeling is thus required.

In the area of **eye irritation** when tested specified and at the concentrate supplied, this product induced slight eye irritation in two of the six test animals with complete recovery within 48 hours. The irritations were not considered significant (positive) to require labeling.

In the area of **ingestion hazard**, when administered at 15g / kg which is 3 times the dose level as required by the US Federal Hazardous Substances Act, the submitted concentrate did not induce any acute toxicity in the test animals, your product therefore is considered essentially non toxic and no labeling is required.

In the area of **acute inhalation hazard**, the product diluted 1:32 with de ionised water did not induce any acute inhalation toxicity in the exposed test animals after 1 hour dynamic exposure at the maximum achievable concentration of **14.2 mg/l**.

This product was not acutely toxic in the area of acute inhalation hazard at the dilution tested. **No labeling is required for your product at that dilution.**

Based on the ingredients in this composition and their concentrations, this product is according to the conventional method of EEC directive 1999/45/EC classified as: Safe when used as directed.

*Ecological Information:*

**General: This material is unlikely to accumulate in the environment and environmental problems under normal use conditions are unexpected.**

This information is to the best of our current knowledge correct and is intended to describe the product only in terms of health & safety and environmental requirements. Since the conditions of use are outside our control, any recommendations or suggestions are made without guarantee and Mist-Air disclaims any liability for loss or damage suffered from use of this information. Customers must satisfy themselves that the product is suitable for a particular purpose. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents.

