Breakthrough Rapid Neutraliser of Hazardous Chemical Spills and Vapours

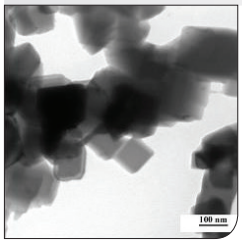
NO MORE CONFUSING RESPONSES

- NEUTRALISES TOXIC CHEMICAL LIQUIDS AND VAPOURS*
- IDEAL SOLUTION FOR IMMEDIATE LABORATORY CHEMICAL SPILL RESPONSE
- WORKS ON ACIDS, CAUSTICS, TOXICS AND SOLVENTS*
- EASY TO MAINTAIN AND USE
- NON-TOXIC
- NO LIMITED SHELF LIFE
- NO PRE-MIXING REQUIRED

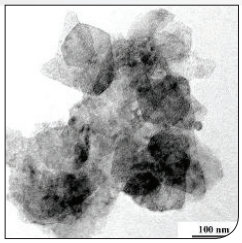
FAST ACT®

TECHNOLOGY

FAST-ACT is a combination of common metal oxides (MgO + TiO_2) with a unique morphology. It has nanomaterial properties with a final particle size of nearly 5µm. The production process creates an altered, non-toxic molecular structure with large increase in porosity and surface area.



Standard
MgO 30sqm/gm



FAST-ACT
MgO 230sqm/gm

20 grams of NanoActive FAST-ACT has a surface area equivalent to a football field

HOW DOES IT NEUTRALISE TOXIC CHEMICALS INCLUDING VAPOUR?

Nanomaterials by nature want to agglomerate and because the molecular structure of FAST-ACT is incomplete, it binds to any reactive substance using “ionic bonding”. It uses the targeted chemical’s ions to try and complete its own structure, as a result many hazardous chemicals are neutralised through a process now known as “destructive adsorption”.

The large surface area with numerous corners and edges containing many unsaturated ions make it effective on liquids and vapours of hazardous compounds.

FAST-ACT literally binds and destroys the contacted chemical with a resultant non-hazardous, neutralised by-product.

HCl is converted to $MgCl_2 + H_2O$
HF is converted to $MgF_2 + H_2O$

* Refer to the Summary of Effectiveness over page

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FAST ACT WALL UNIT
includes 500g FastAct Shaker

- Ideal solution for immediate chemical spill response. Works on acids, caustics, toxics and solvents.
- Easy to operate portable delivery systems
- No premixing required
- No special training necessary
- Compact containers for easy storage

Order Code:
FA15-0500WALL

FAST ACT SHAKER BOTTLES

- Effective against toxic spills
- Easy to operate portable delivery systems
- No premixing required
- No special training necessary
- Compact containers for easy storage
- Safe and non-toxic, non-corrosive, and non-flammable
- Dry powder formulation
- Blend of earth minerals

Order Code:
FA15-0070 70g
FA15-0300 300g
FA15-0500 500g

500g bottle to fit wall unit ▶

FAST-ACT CYLINDER

- Effective against vapour hazards
- Easy to operate portable delivery systems
- No premixing required
- No special training necessary
- Safe and non-toxic, non-corrosive, and non-flammable
- Dry powder formulation
- Blend of earth minerals

Order Code:
FA15-1000 1kg Cylinder
FA15-2000 2kg Cylinder
FA15-4000 4kg Cylinder

1kg cylinder ideal for most laboratory applications ▶

SUMMARY OR EFFECTIVENESS

NEUTRALISATION

Corrosive Materials

Acids
- Inorganic and Organic
- Hydrochloric Acid
- Hydrofluoric Acid*
- Nitric Acid*
- Phosphoric Acid
- Sulfuric Acid*
- Acetic Acid
- Methanesulfonic Acid
- Ethanesulfonic Acid
- Benzenesulfonic Acid
- Toluenesulfonic Acid

Phosphorus
- Pesticides
- Dimethyl Methylphosphonate
- Paraoxon
- Parathion*

Sulfur
- 2-Chloroethyl Ethyl Sulfide
- Methyl Mercaptan

Phenols
- Nitrophenols
- Chlorophenols

Carbonyl Compounds
- Aldehydes*
- Ketones
- Carboxylic Acids

Nitrogen Compounds
- Acetonitrile*
- Sodium Cyanide (aq)
- 4-vinylpyridine

Halogens/Halides
- Acetyl Chloride
- Chloroacetyl Chloride
- Chlorine
- Chloroform
- Hydrogen Bromide*
- Cyanogen Chloride
- Methylene Chloride
- Carbon Tetrachloride
- TCE, PCE

Bis-(2-Chloroethyl) Sulfide

Pinacolyl methylphospho - nofluoridate

O-ethyl S-(2- diisopropylaminoethyl)m ethylphosphonothioate

Vapour Hazards

Acidic and Caustic Gases
- Hydrogen Chloride
- Hydrogen Fluoride
- Hydrogen Bromide*
- NO_x/N_2O_4*
- Sulfur Dioxide
- Hydrogen Sulfide*
- Diborane*
- Hydrogen Selenide*
- Phosphine*
- Ammonia
- Anhydrous Ammonia*
- Carbonyl Sufide
- Hydrogen Cyanide*

Chlorinated Organics
- Acetyl Chloride
- Chloroacetyl Chloride
- Chloroform
- Methylene Chloride

Halogens
- Chlorine*
- Bromine
- Iodine

Volatile Organics
- Methyl Mercaptan*
- Ethylene Oxide*
- Formaldehyde*
- Phosgene*
- Arsine*

ADSORPTION

Liquid Solvent Spills

Alcohols/Phenols
- Ethanol
- Methanol
- Allyl Alcohol*
- Nitrophenols
- Chlorophenols

Caustics
- Metal Hydroxides (aq)

Petrochemicals
- Diesel
- Gasoline
- Oils

Others
- Acrylonitrile*
- Benzene
- Hydrazine*
- Toluene
- Acrolein*
- Methylhydrazine*
- Methylisocynate*

NOT EFFECTIVE ON

Biologicals
- Bacteria
- Viruses
- Spores

Nuclear

Radiological

Heavy Metals

Solid Waste

LIQUID & VAPOUR CHEMICAL SPILLS AND RELEASES

Note: Depending on the amount of FAST-ACT used, various chemicals may undergo a combination of neutralization, absorption, and/or containment.
*** Denotes Top 27 Toxic Industrial Chemicals (USA CHPPM)**

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