

aska®

FAST-ACT Single Window Solution to Neutralise Known & Unknown Toxic Chemicals, Vapours & Gases and Decontaminate the Equipments

For H₂S,
Industrial
Chemical & CWA
Neutraliser

Successfully trial
evaluated against
H₂S threat by IOCL
& ONGC

Recommended
by OISD

aska® FASTACT®

First Applied Sorbent Treatment - Against Chemical Threat



<https://www.gem.gov.in>

FASTACT USPs

- ▶ Real time, on-site neutralisation of chemical threats
- ▶ Effective against vapours, fumes and liquids
- ▶ Safe, non toxic, non corrosive
- ▶ Ready to use formulation - no mixing, no water required
- ▶ Wide spectrum toxicity management
- ▶ No residual hazard - easy disposal
- ▶ Mitt has been designed to decontaminate equipments, clothes, weapons, helmets, etc.
- ▶ Can be use in open areas for self safety in case sudden release of chemicals (escape path)



4 kg

2 kg

1 kg

FAST ACT
MITT



FAST ACT PRESSURIZED
CYLINDER 1KG



FAST ACT PRESSURIZED
CYLINDER 2KG



FAST ACT PRESSURIZED
CYLINDER 4KG



FAST ACT POWDER
CONTAINER 5KG



Australian Government

Department of Health
Therapeutic Goods Administration

TGA (Australian Register of Therapeutic
Goods Certificate) for Skin Safety



For H₂S Neutralisation

TECHNOLOGY

FAST-ACT is a combination of common metal oxides (MgO + TiO₂) 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.

HOW DOES IT WORKS ?

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.

FAST-ACT residue is MgS after reaction with H₂S

APPLICATION AREAS

- To neutralise H₂S threat on board naval ships
- To neutralise H₂S threat in refineries (SRUs, FCC, CRU, DHDS, DHD, HCU)
- To neutralise H₂S threat in sludge handling areas, tail gas unit, amine regeneration units and areas where ever H₂S presence is expected in refineries
- The chemical warfare agents if used in govt buildings or metros or any other places
- Chlorine and Ammonia leak threats are neutralised
- All known and unknown toxic vapour, gases and chemical threats except in solid state

TESTED & CERTIFIED BY

- TNO Laboratories, Netherlands
- Battelle Memorial Institute Columbus, OH, USA
- The Edgewood Chemical Biological Center (ECBC), Aberdeen Proving Ground, MD, USA
- Toxicology Unit, School of Medical Sciences, RMIT, Australia
- NATO approved personal decontamination kit and personal decontamination apparatus
- Lloyds certified for H₂S neutralisation

Capacity	1kg / 2kg / 4kg Decontamination Powder (Nanomaterials) in pressurized vessel	Color and form of material/particles	White dry powder
Operating Pressure of the container	180 - 220 PSI (up to 15 bar)	Powder major ingredient	Dry Chemical powder formulation of non-toxic Nano crystalline metal oxides (primarily TiO ₂ and MgO)
Discharge time	Not more than 2 min	Gross Weight (including powder)	1kg Nanomaterials in 2L Pressurized Vessel - 2.1± 10% 2kg Nanomaterials in 6L Pressurized Vessel - 4.4± 10% 4kg Nanomaterials in 9L Pressurized Vessel - 6.7± 10%
Pressure gauge	Yes Provided (easy to read). 2Nos.	Dimension (Height x Diameter) mm	2L - 410 x 125, 6L - 570 x 178, 9L - 640 x 210
Gas used for pressurization	Nitrogen	Test Reports	TNO, Netherlands/Beattle/SBCCOM or Lloyds for H ₂ S neutralisation
Discharge Hose & Nozzle	Nozzle that can spray the powder evenly and easily and shall not get corroded/clogged on exposure to chlorinating compounds.	Life of Decontamination Powder	5 Years from the date of filling of vessel
Container / Vessel	HDPE white color vessel Test pressure: 22 Bar and Burst pressure 55 Bar (Minimum) as per TC of Manufacturer or as per guidelines	Hose material as per EN standard (applicable for 6L & 9L vessel)	EPDM

NEUTRALISATION		ADSORPTION
CORROSIVE MATERIALS	VAPOUR HAZARDS	LIQUID SOLVENT SPILL
ACIDS Inorganic and Organic Hydrochloric Acid Hydrofluoric Acid Nitric Acid Phosphoric Acid Sulphuric Acid Acetic Acid Methanesulfonic Acid Ethanesulfonic Acid Benzenesulfonic Acid Toluenesulfonic Acid Hydrogen sulfide (H ₂ S)	HALOGEN / HALIDES Acetyl Chloride Chloroacetyl Chloride Chlorine Chloroform Hydrogen Bromide Cyanogen Chloride Methylene Chloride Carbon Tetrachloride TCE, PCE	ALCOHOLS / PHENOLS Ethanol Methanol Allyl Alcohol Nitrophenols Chlorophenols
BIS (2-CHLOROETHYL) SULFIDE PINACOLYL METHYLPHOSPHONOFUORIDATE O-ETHYL S (2-DISSOPROPYLAMINOETHYL) - MET HYLPHOSPHONOTHIOATE	PHOSPHORUS Pesticides DimethylmethylPhosphnate Paraoxon Parathion	CAUSTICS Metal Hydroxides (aq)
CARBONYL COMPOUNDS Aldehydes Ketones Carboxylic Acids	SULPHUR 2-Chloroethyl Ethyl Sulfide Methyl Mercaptan	PETROCHEMICALS Diesel Gasoline Oils
NITROGEN COMPOUNDS Acetonitrile Sodium Cyanide (AQ) 4-Vinylpyridine	PHENOLS Nitrophenols Chlorophenols	OTHERS Acrylonitrile Benzene Hydrazine Toluene Acrolein Methylhydrazine* Methylsocynate*
	CHEMICAL WARFARE AGENTS Sulphur Mustard (HD) Tabun (GA) Sarin (GA) Soman (GD) VX & H ₂ S	HALOGENS Chloride Bromine Iodine
		VOLATILE ORGANICS Methyl Mercaption Ethylene Oxide Formaldehyde Phosgene Arsine
		CHLORINATED ORGANICS Acetyl Chloride Chloroacetyl Chloride Chloroform Methylene Chloride

CLIENTS

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