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Chemistry for tomorrow

A Synthomer Group Company 

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WORLD LEADING INORGANIC CHEMISTRY



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WILLIAM BLYTHE DEVELOPS AND MANUFACTURES INORGANIC SPECIALITY CHEMICALS AND ADVANCED MATERIALS.

William Blythe was founded in 1845 and originally produced chemicals for the local textile industry that was located in the North West of England. Since that time, William Blythe have transformed into a manufacturer of speciality inorganic chemicals. Our vision is to be a leading innovator in the development of advanced, functional, inorganic materials.

We have an established blue chip customer base serving high growth markets such as polymers, catalysts and life sciences. We have a team of highly skilled scientists, technicians and engineers, the majority being based at our facility in Accrington. Our current product range includes derivatives of copper, tin, iodine, zinc, tungsten and magnesium. These functional derivatives are used in a diverse number of applications and our broad product portfolio includes flame retardants, heat stabilisers, catalysts and pigments precursors.

At William Blythe we continue to look to the future, with R&D currently focussed on developing advanced materials. Key areas for our advanced materials research include perovskite materials for solar cells, doped metal oxides with NIR absorption properties and active materials required for energy storage. Graphene oxide is an important new product with a number of exciting applications in water purification, polymer reinforcement and catalysis. William Blythe is a wholly owned subsidiary of Synthomer PLC.

CATALYSTS



COATINGS



ELECTRONICS



FOOD & FEED



LIFE SCIENCES



PIGMENTS



PLATING



POLYMER ADDITIVES



PRINT



PROCESS CHEMICALS



PURIFICATION
ABSORBENTS



RENEWABLE ENERGY



USE THIS MENU TO NAVIGATE THROUGH EACH SECTION

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CHEMICAL CATALYSTS



BASIC COPPER CARBONATE

Copper source for the manufacture of complex oxide catalysts, e.g. process catalysts for ammonia and methanol synthesis

COPPER (II) NITRATE (solution)

Copper source for the manufacture of supported catalysts

GRAPHENE OXIDE (dispersion)

- 1) Catalyst for gas phase oxidation of hydrocarbons
- 2) Support material for catalyst applications; can also be used in its reduced form (rGO)

TIN (II) OXIDE

Catalyst for the esterification of oleochemicals, e.g. for the manufacture of plasticisers, lubricants, cosmetics and surfactants



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COATING ADDITIVES



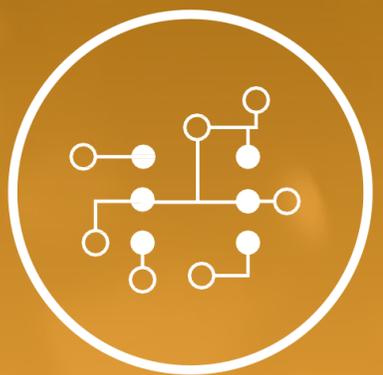
FLAMTARD™ H Smoke suppressant and flame retardant synergist for flame retardant paints
LUXACAL™ Active Material for the absorption of radiation in the near infrared wavelength range, e.g. for use in the production of energy efficient windows
TIN (II) CHLORIDE (solution) Reducing agent in the manufacture of mirrors



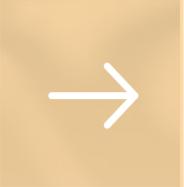
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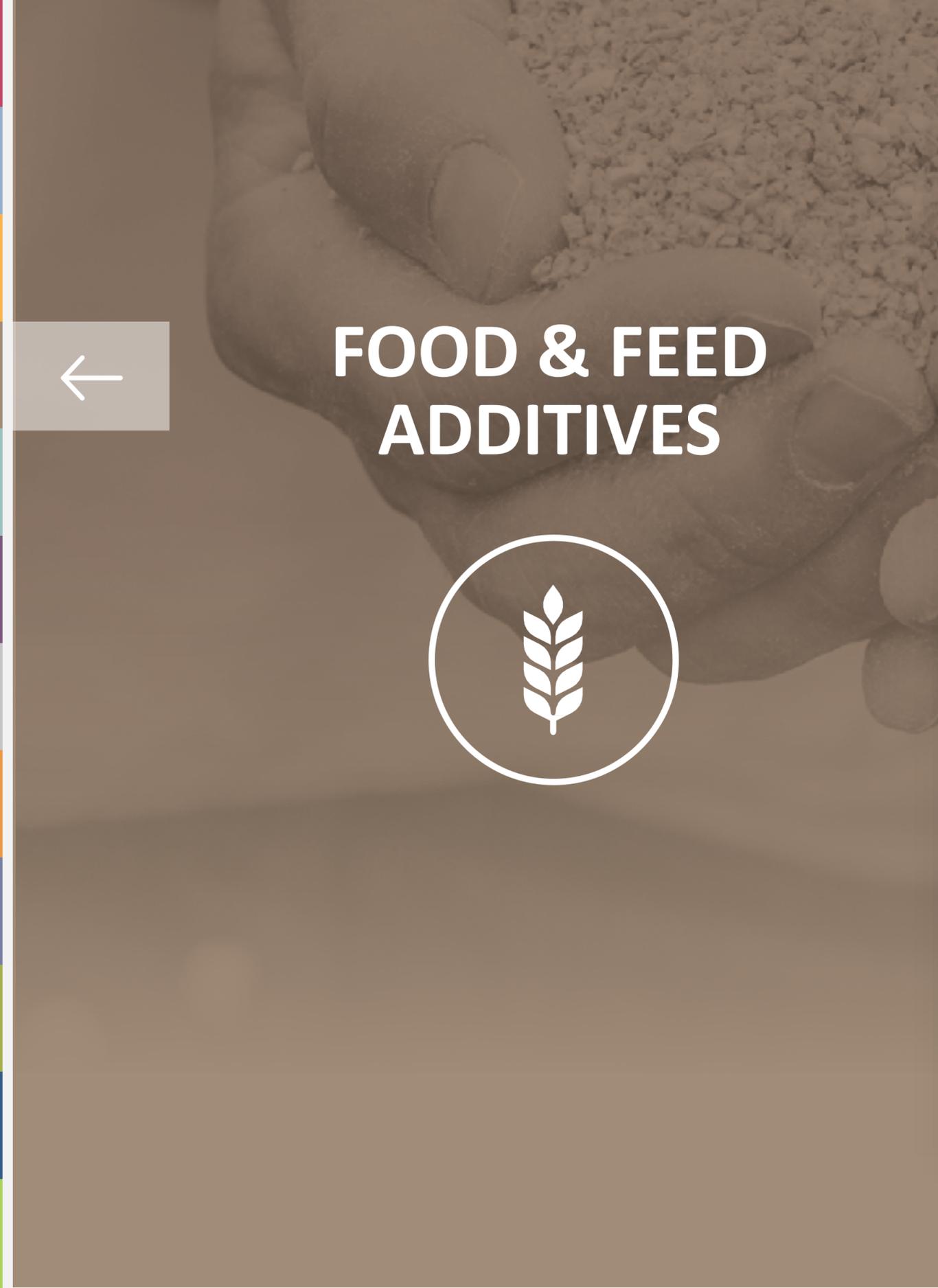
ELECTRONIC CHEMICALS



- COPPER (I) IODIDE**
 Cathode material in salt water activated batteries
- GRAPHENE OXIDE (dispersion)**
 Component for creating transparent electrodes in its reduced form (rGO)
- PERIODIC ACID (solution)**
 Selective oxidising agent for the planarization of metal conductive layers in silicon chips
- POTASSIUM IODIDE**
 Used in light polarisation filters; adsorbed into PVA sheets, the resulting conductivity provides polarisation capability
- TIN (II) CHLORIDE (also available as solution)**
 Reducing component of sensitising solutions used for electroless plating of non-conductors, e.g. metallisation of plastic, through hole plating in microelectronics



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FOOD & FEED ADDITIVES



BASIC COPPER CARBONATE
 Copper source used in the manufacture of copper chelates used as feed additives

COPPER (I) IODIDE
 Feed additive to counter iodine deficiency in animals

MAGNESIUM NITRATE (solution)
 Nutrient in horticulture

POTASSIUM IODATE
 Iodine source, with enhanced stability compared to potassium iodide, for addition to food to counter iodine deficiency

POTASSIUM IODIDE
 Iodine source for addition to food to counter iodine deficiency

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LIFE SCIENCE REAGENTS



COPPER (I) IODIDE

Reagent for the coupling of functional groups to aromatic molecules in fine chemical synthesis

GRAPHENE OXIDE (dispersion)

- 1) Potential antimicrobial agent
- 2) Potential nanocarrier for use in drug delivery systems

PERIODIC ACID (also available as solution)

Selective oxidising agent for stereospecific cleavage of 1,2 glycols

POTASSIUM IODIDE

Key component for in situ formation of potassium triiodide complexes in antiseptic creams

SODIUM METAPERIODATE

- 1) Selective oxidising agent for stereospecific cleavage of 1,2 glycols
- 2) Pro-oxidant with reagents such as potassium permanganate

TIN (II) CHLORIDE (also available as solution)

Reducing agent in azo-coupling reactions for the synthesis of heterocyclic compounds, e.g. indole derivatives

TIN (II) OXIDE

Raw material for the manufacture of anti-caries additives, e.g. toothpaste

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PIGMENT PRECURSORS



COPPER CARBONATE

Copper source in complex inorganic oxide pigments, e.g. copper chrome

POTASSIUM IODIDE

Key component in certain complex inorganic oxide pigments, e.g. bismuth vanadate pigments

TIN (II) CHLORIDE (solution)

A source of tin for the manufacture of tin oxide coated effect pigments

TIN (II) OXIDE

Key component in complex inorganic oxide pigments, e.g. zinc tin

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PLATING MATERIALS



TIN (II) CHLORIDE (also available as solution)
Source of tin for the electroplating of steel in high speed continuous production lines

TIN (II) OXIDE

- 1) Raw material for the manufacture of tin methane sulfonate to be used for electroplating
- 2) Source of tin for replenishing electroplating baths based on tin methane sulfonate

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POLYMER ADDITIVES

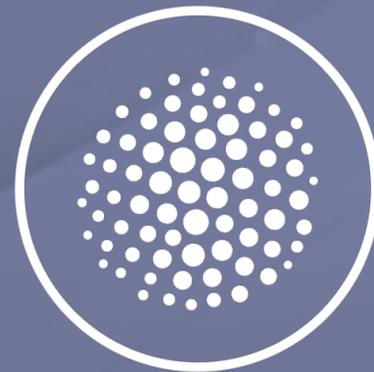


COPPER (I) IODIDE
Heat and light stabiliser in engineering polyamides, in conjunction with potassium iodide
FLAMTARD™ H
Smoke suppressant and flame retardant synergist with co-flame retardants. For polymer processing at temperatures below 220°C
FLAMTARD™ HF
Flamtard H with narrower particle size distribution
FLAMTARD™ S
Smoke suppressant and flame retardant synergist with co-flame retardants. For polymer processing at temperatures above 220°C
FLAMTARD™ S+
Smoke suppressant and flame retardant synergist with co-flame retardants. For polymer processing at temperatures above 220°C. For use in applications which have zinc-free requirements
FLAMTARD™ T
Smoke suppressant and flame retardant synergist with co-flame retardants. For polymer processing at temperatures below 220°C. For use in applications requiring improved thermal stability
FLAMTARD™ V
Range of silica based flame retardant synergists
GRAPHENE OXIDE (dispersion)
Potential additive for enhanced mechanical properties in engineering polymers
POTASSIUM IODIDE
Heat and light stabiliser in engineering polyamides, in conjunction with copper (I) iodide
TIN (II) CHLORIDE
Cross-linking catalyst for the dynamic vulcanisation of elastomeric compounds containing elastomers, thermoplastics and phenolic resins



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PRINT CHEMICALS



PERIODIC ACID (solution)

Selective oxidising agent for the stripping of polymeric stencils from silk screens. Ideally suited for large scale automated operations

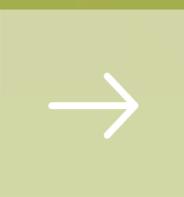
SODIUM METAPERIODATE

Selective oxidising agent for the stripping of stencils from silk screens



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PROCESS CHEMICALS



- BASIC COPPER CARBONATE**
 - 1) Copper raw material for the manufacture of biocides for timber treatment and swimming pool treatment
 - 2) Source of copper for the impregnation of activated carbon
- BASIC COPPER NITRATE**
 Activator in propellant compositions in airbags
- MAGNESIUM NITRATE (solution)**
 Stabilisation component in specific biocide formulations
- PERIODIC ACID (solution)**
 Chelating agent for metal ions for the stabilisation of oxidising surface cleaners, e.g. bleach
- POTASSIUM IODATE**
 - 1) Used with potassium iodide to generate iodine in situ for the synthesis of iodo-derivatives
 - 2) Used for the impregnation of security papers as an anti-forgery treatment
- POTASSIUM IODIDE**
 Source of iodine for the synthesis of iodo-derivatives
- TIN (II) CHLORIDE (also available as solution)**
 Reducing agent in cement production for converting chromium (VI) to chromium (III)
- TIN (II) OXIDE**
 An acid soluble raw material for the manufacture of tin salts of organic and inorganic acids



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PURIFICATION ABSORBENTS



DURAGUARD™ S100
Copper based gas absorbent for the removal of hydrogen sulfide from natural gas

DURAGUARD™ M100
Copper based gas absorbent for the removal of mercury from natural gas



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ANODE MATERIALS

Novel anode materials currently under development, please enquire for further details

CATHODE MATERIALS

Novel cathode materials currently under development, please enquire for further details

GRAPHENE OXIDE (dispersion)

- 1) Suitable for use as a conductive additive in electrode mixtures when reduced to rGO
- 2) Suitable for use as a coating on cell components

LEAD IODIDE

Precursor material for manufacture of perovskite based solar cells

LUXACAL™

Active Material for the absorption of radiation in the near infrared wavelength range, e.g. for use in the production of energy efficient windows





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