Bringing more to the mix.

3M™ Novec™ Engineered Fluids for Aerosol Formulations in Industrial and Professional Applications
More options – more answers.

A wide range of sustainable solutions that set a new standard of performance – for even the most challenging aerosol formulations for industrial and professional use.

In a marketplace overflowing with “me-too” aerosol products, how do you get your product to stand out from the crowd?

You could try updating your packaging. Or cutting your prices. But a better strategy for building long-term loyalty is to provide your customers with unique new solutions to real-world problems. Solutions like providing uniform and stable mixtures of aerosol components. Delivering a safe and sustainable application spray with low global warming potential. Avoiding restricted-use chemicals. Cleaning or coating sensitive materials without damaging them.

That’s where 3M can help. We developed our proprietary family of 3M™ Novec™ Engineered Fluids to address the need for safe, sustainable alternatives to chlorofluorocarbons (CFCs), hydrofluorocarbons (HFCs) and other common industrial solvents, including those used in aerosol formulations. Today, Novec fluids are proving their effectiveness in a wide range of aerosol product applications.

The outstanding combination of performance, safety and environmental properties offered by Novec fluids allows you to provide your customers with unique new solutions that get the job done – without compromising worker safety or your commitment to the environment.

More formulating freedom

Your customers need products that are compatible with substrate materials, safe for workers, compliant with environmental regulations, and effective in applications, such as cleaning a wide range of soils and contaminants.

Designing with Novec fluids gives you more “formulating freedom,” offering a wide range of solvents and solvent blends to achieve the ideal balance of properties for your customers’ applications.
Engineered for worker safety and long-term regulatory compliance

Novec fluids are non-flammable, low in toxicity and viewed favorably by regulatory agencies around the world. They can help you reduce the overall flammability and toxicity of your formulations – making them a ‘go-to’ solvent in any application where safety regulations are a significant concern. Because there are no use restrictions or reporting requirements for Novec fluids, using them in formulations with regulated materials can help reduce the cost of compliance, while giving you the marketing advantage of providing your customers a safer product.

Novec fluids offer a safe, sustainable alternative to common solvents such as n-propyl bromide (nPB), which has been classified as a Substance of Very High Concern by the European Chemicals agency – meaning that it could be banned or face limitations under the European Union’s REACH legislation. In a National Toxicology Program report, nPB was also associated with “clear evidence of carcinogenic activity.”

3M Novec™ Engineered Fluids for Aerosol Formulations for Industrial or Professional Use

3M cares about customer safety

Aerosol formulation is a complex science that involves balancing safety, costs, regulatory issues and compatibility with other components in your aerosol product. With Novec fluids, you have the ability to choose the solvent – and the proportions – to maximize the critical properties for your application and customers.

When formulating with chemicals, proper safe handling and composition is always required. 3M is here to help and should be contacted for information – especially when formulating with polymers, oils or other materials.

3M recommends careful attention to risk management through control over composition, exposure reduction through automated equipment, and use of PPE (Personal Protection Equipment) or control of respiratory exposure through particle size control. 3M does not support the use of our fluids in products that contribute to respiratory irritation or high personal exposures.

3M manages the use of persistent chemicals, including fluorinated fluids, through application review. For assistance with new application reviews, customers should contact 3M Product Stewards, product Responsibility Liaisons, or 3M Technical Services.

Let’s get started – together

We are here to help choose the right 3M™ Novec™ Engineered Fluids for your applications and processes. Please use the information below to learn more and get started today!

The 3M™ Novec™ Brand Family

The Novec brand is the hallmark for a variety of proprietary 3M products. Although each has its own unique formula and performance properties, all Novec products are designed in common to address the need for safe, effective, sustainable solutions in industry-specific applications. These include precision and electronics cleaning, heat transfer, fire protection, protective coatings, immersion cooling, advanced insulation media replacement solutions and several specialty chemical applications.

Regulatory: For regulatory information about this product, contact your 3M representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M’s control and uniquely within user’s knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user’s method of application.

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