

GAS ODORANT

NATURAL GAS / LNG / BIOMETHANE / LPG /

The gas odorant expert

SPOTLEAK®

THT



VIGILEAK®

ETHYLMERCAPTAN

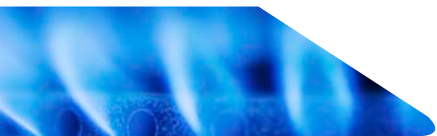
ARKEMA
INNOVATIVE CHEMISTRY



THE GAS ODORANT EXPERT

THE ODOR OF GAS, THE ODOR OF SAFETY

Since the 19th century, when gas was manufactured from coal, the **odor of gas** has been widely associated in peoples' minds with a **sulfurous odor**. In compliance with the ISO 13734 rule, Arkema gas odorants do not have a strong smell but a **"distinctive and not confusable"** odor, for making the use of gas safe. **For over 50 years, Arkema has continuously supplied gas markets with high quality gas odorants that fully comply with this rule.**



LARGEST PRODUCT RANGE ON THE MARKET PLACE

To ensure the safe transport and distribution of odorless gases such as Natural Gas, LPG or industrial gases, Arkema has developed a comprehensive gas odorants range:

- THT and Spotleak® for Natural Gas.
- EthylMercaptan and Vigileak® for LPG.

MOST INNOVATIVE SUPPLIER

To stay ahead of gas markets' evolving needs, Arkema recently developed new gas odorants to match specific requirements. For instance, Spotleak® Z and Vigileak® Z can be used when minimized sulphur content is required for respectively fuel cells or Euro VI car fuel specifications.



ODORFLEX[®]

BY ARKEMA

Arkema is the gas odorant partner you can trust.

We supply not only gas odorants but also deliver these in the packaging which fits your need and answer any technical question you may have on odorization.

EXHAUSTIVE PACKAGING RANGE

We can deliver safely gas odorants in a wide variety of containers:

- Drums: one-way drums or returnable drums equipped with dry-break couplings.
- Semi-bulk containers or mini-bulk trucks.
- Railcars, bulk trailer trucks or ISO-tanks.

SOLUTION PROVIDER

Arkema brings you more than gas odorant.

Our Odorflex[®] services include the following various offers.

- Technical assistance about injection rates or odor fade.
- Trainings from the basic of odorization to a gas odorant spill management exercise, we can set-up a dedicated training to your staff.



PROXIMITY TO OUR CUSTOMERS

Arkema has a **global Thiochemicals production base**, supported by a network of **local filling stations** to ensure the timely delivery of our gas odorants.



Arkema France - A French "société anonyme" registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790
Dircom - 4429E/05.2015/5 - Thio - Photos: Arkema, istock, thimstock - Design: Rhythmic 01 47 49 55 60

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See SDS for Health & Safety Considerations.

Arkema has implemented a Medical Policy regarding the use of Arkema products in medical devices applications that are in contact with the body or circulating bodily fluids (<http://www.arkema.com/en/social-responsibility/responsible-product-management/medical-device-policy/index.html>) Arkema has designated medical grades to be used for such medical device applications. Products that have not been designated as medical grades are not authorized by Arkema for use in medical device applications that are in contact with the body or circulating bodily fluids. In addition, Arkema strictly prohibits the use of any Arkema products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Arkema trademarks and the Arkema name shall not be used in conjunction with customers' medical devices, including without limitation, permanent or temporary implantable devices, and customers shall not represent to anyone else, that Arkema allows, endorses or permits the use of Arkema products in such medical devices.

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies). It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.

ARKEMA
INNOVATIVE CHEMISTRY

arkema.com/gas-odorant

Headquarters: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex - France
Tel.: +33 (0)1 49 00 80 80
Fax: +33 (0)1 49 00 83 96
arkema.com