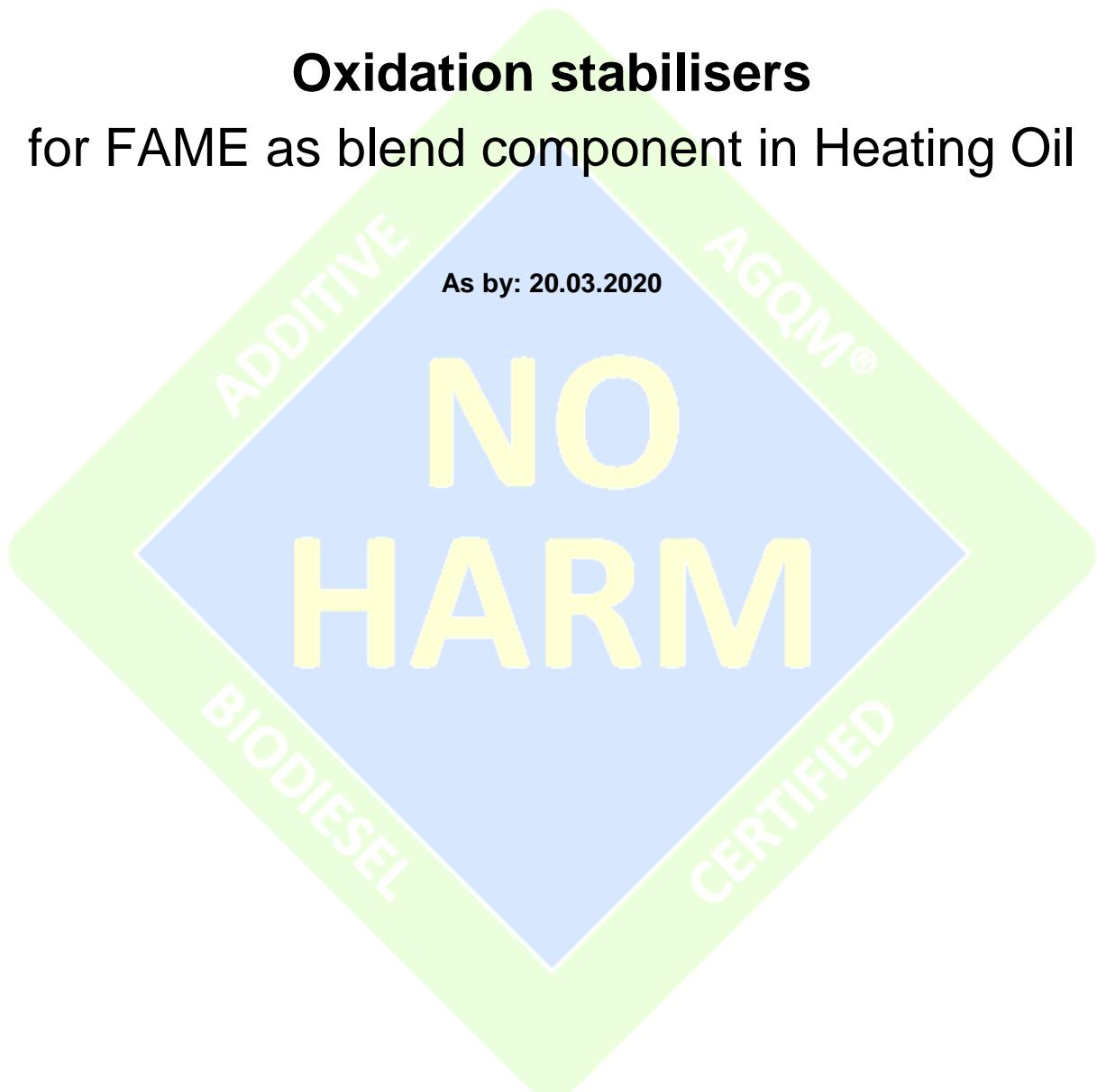


No-Harm List

Oxidation stabilisers

for FAME as blend component in Heating Oil



The no-harm tests are performed with the dosing rate recommended by the producer. The maximum dosing rate however is 1200 ppm. Products that fulfil all criteria of the no-harm test are published in this no-harm list. Additional information can be found on the homepage (www.agqm-biodiesel.de/en).

The no-harm test for oxidation stabilisers for FAME as blend component in heating oil comprises the following test criteria:

- Minimum requirements
- Interaction test
- DGMK filtration test 663
- Relative efficiency

With the revision of EN 14214 (EN 14214:2010) in 2012, the requirements for the oxidation stability increased from min. 6 h as stipulated by the previous standard to min. 8 h according to the at that time new standard EN 14214:2012. This alteration led to corresponding consequences regarding the required achievable oxidation stability for the no-harm test. Since 2013 the requirement of the no-harm test is that a minimum oxidation stability of 8 h +1 h must be achieved by additivation. The achievement of an extra hour is meant to provide the customer with a safe time reserve for any possible stability loss due to contact with oxygen during transport or prolonged storage times, for example.

Since the development of the no-harm test in 2008, test methods and techniques for testing quality properties have developed further or have been newly developed. In order to take this technical progress into account and to meet future requirements and challenges with the no-harm test, all products that have successfully passed the no-harm test since 2019 must be tested again every 5 years if the no-harm test procedure changes significantly. Significant changes include, for example, newly developed test methods that replace methods from the no-harm test, higher requirements due to changes in the limit values or the implementation of new parameters that are necessary to ensure the no-harm properties of a product. Products that have not been retested will be removed from the no-harm list.

AGQM carried out the project with the greatest possible scientific accuracy and care. Nevertheless, no guarantee can be given for the correctness, completeness and topicality of the content provided. For this reason, we exclude any liability in connection with the use of the no-harm list. It is recommended to obtain the information directly from the manufacturer.

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Reg. no.	Filed	Company	Brand name	Test level
2019-H-03	25.04.2019	Dorf Ketal B.V.	SR 1529	B20
2018-H-02	28.05.2018	IFO Agro LLC	IFO-6hD	B20
2017-H-01	06.06.2017	Oxiris Chemicals S.A.	IONOL BH1000	B20

