Sulfurized Vegetable Fatty Acid Ester

This document provides a brief description of sulfurized vegetable fatty acid ester, its uses, and the potential hazards associated with short and long term exposure. Environmental impact information for accidental releases is included. This information is general in nature and is not intended as a replacement for the safety data sheet (SDS), product label and other safe handling literature. For additional information consult the LANXESS Corporation safety data sheet.

Identification

Chemical Name:	Fatty acids, vegetable-oil, Me esters, sulfurized
Synonym(s):	Fatty acids, vegetable oil, methyl esters, sulfurized Me esters, sulfurized Fatty acid esters
CAS Number:	72102-30-8
Applicable LANXESS Materials:	Additin RC 2315 Additin RC 2310 Additin RC 2317

Description

Overview:	The fatty acid ester is a light brown, low-viscosity liquid at ambient temperatures possessing a slight, characteristic odor.	
Uses:	As sold by LANXESS, the organic compound is an extreme pressure additive for lubricants used in the petroleum industry and high performance additive applications such as metalworking.	
Properties:	**Solubility in Water:**	Slight
	Decomposition:	>180° C (356°F)
	Flash Point:	180°C (356°F)
	Viscosity:	55 mm^2/s (40˚C), ASTM-D 445

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, in unloading, storage, transfer and quality control sampling operations, and while charging reaction vessels at facilities using lubricants that contain the additive. A much lower potential for exposure exists in facilities using the compound in closed manufacturing processes by trained personnel.

Employee Training

Workers handling this material should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. General ventilation should be sufficient to control worker exposure to airborne contaminants. Respirator use must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator. It is recommended that permeation resistant gloves, protective clothing and footwear, and safety glasses with side shields be worn if contact with product is possible.

Consumer Exposure

LANXESS Corporation does not sell the sulfurized vegetable fatty acid ester, nor materials containing the organic compound, to the general public.

Short-Term Health Effects

No known significant effects or critical hazards.

Long-Term Health Effects

No known significant effects or critical hazards.

Physical Hazards

As sold, the organic compound is stable under normal conditions of use. Extremes of temperature and direct sunlight should be avoided. Prevent contact with strong oxidizing agents, reducing agents, acids and bases. Avoid heat, open flames and other potential sources of ignition. Vapors may form explosive mixtures with air. Thermal decomposition may release oxides of carbon, oxides of sulfur, and hydrogen sulfide.

Potential Environmental Impact

No known significant effects or critical hazards are expected to occur.

Conclusion

Under normal conditions of anticipated use as described in this Product Safety Assessment, and if the recommended safe use and handling procedures are followed, the sulfurized vegetable fatty acid ester is not expected to pose a significant risk to human health or the environment.

References

Additives for the Lubricant Oil Industry: Additin® EP/ Light-color, low-odor sulfur carriers, *2017****,*** LANXESS Corporation

European Chemical Agency, Fatty acids, vegetable-oil, Me Esters, Sulfurized, *December 2017*

Technical Data Sheet (TDS), Additin RC 2317, LANXESS Corporation

Safety Data Sheet (SDS), Additin RC 2317, LANXESS Corporation

Contact Information

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Notices

Use and Application Information

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.