

MATRIFUSE™ S-1 dispersant

Toxicology Studies based on read across to component data

INCI Name: Polyhydroxystearic Acid and Neopentyl Glycol Diethylhexanoate

<u>TEST</u>	<u>RESULTS</u>	<u>CONCLUSION</u>
<u>Acute Oral Toxicity.</u> Substance tested in rats orally according to OECD guideline 423	There were no deaths, no signs of systemic toxicity or abnormalities. All animals showed expected gains in body weight. The LD50 was determined to be greater than 2,000 mg/kg	Not acutely toxic via oral route at limit dose
<u>In vitro Skin Corrosion.</u> In vitro skin corrosion was evaluated using EpiDerm™ (OECD 431)	The relative mean viability of the test item treated tissues was 93.8% and 103.7% for the 3 and 60 minutes exposures, respectively	Non-corrosive
<u>In vitro Skin Irritation.</u> Skin Irritation was assessed according to EpiSkin™ (OECD 438)	The relative mean viability of the test item treated tissues was 107.2% after the 15-Minute exposure period and 42-Hours post-exposure incubation period	Not an irritant
<u>In vivo Eye Irritation.</u> Evaluated eye irritation potential of undiluted substance according to the Bovine Corneal Opacity and Permeability (BCOP) Assay (OECD 405)	The substance produced individual mean scores of 0.0 for corneal opacity, 0.0 for iritis, 0.7 or 1.0 for conjunctival redness and 0.3 or 0.7 for conjunctival chemosis	Moderate irritant
<u>Skin Sensitization.</u> A version of the Human Repeated Insult Patch Test regimen was conducted under standards of good clinical practices with double blind conditions on a panel consisting of more than one-hundred subjects at the outset	Under the conditions prevailing in this patch test study, the product was found to be incapable of eliciting clinically significant skin damage on any of the more the individuals upon which data were acquired	Not skin damaging or sensitizing
<u>Mutagenicity assay.</u> A reverse mutation assay "Ames Test" was performed on <i>Salmonella typhimurium</i> and <i>Escherichia coli</i> using OECD 471	No significant increases in revertant colonies were recorded for the substance, either with or without metabolic activation	Non-mutagenic

Lubrizol Advanced Materials, Inc. / 9911 Brecksville Road, Cleveland, Ohio 44141-3247 / TEL: 800.379.5389 or 216.447.5000

The information contained herein is being furnished for informational purposes only, upon the express condition that the User makes its own assessment of the appropriate use of such information. While the information contained herein is believed to be reliable, no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for a particular application or the results to be obtained herefrom. Lubrizol Advanced Materials, Inc. ("Lubrizol") cannot guarantee how any products associated with this information will perform in

combination with other substances or in the User's process. Due to variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the information or products for the applications disclosed. Lubrizol shall not be liable and the User assumes all risk and responsibility for any use or handling of any material beyond Lubrizol's direct control. LUBRIZOL MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,

THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. It is the User's sole responsibility to determine if there are any issues relating to patent infringement of any component or combination of components relating to the supplied information. **Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.**

For further information, please visit: www.lubrizol.com/personalcare