TOX-229
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MATRIFUSE™ S-1 dispersant

Toxicology Studies based on read across to component data

INCI Name: Polyhydroxystearic Acid and Neopentyl Glycol Diethylhexanoate

TEST	***RESULTS***	***CONCLUSION***
Acute Oral Toxicity. 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**
In vitro Skin Corrosion. 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**
In vitro Skin Irritation. 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**
In vivo Eye Irritation. 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**
Skin Sensitization. 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**
Mutagenicity assay. A reverse mutation assay “Ames Test” was performed on *Salmonella typhimurium* and *Escherichia coli* using OECD 471	No significant increases in revertant colonies were recorded for the substance, either with or without metabolic activation	**Non-mutagenic**

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