

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

March 3, 2008

TO: Memo to File, Lauryl Alcohol Phosphated [39464-66-9]
FROM: Margaret M. Sadoff
RE: Screening Level Derivation

A search of the literature and the following databases was performed for information regarding sodium formaldehyde sulfoxylate (SFS): American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values, National Institute for Occupational Safety and Health (NIOSH) Pocket Guide to Hazardous Chemicals, EPA Integrated Risk Information System (IRIS), EPA High Production Volume Information System, Registry of Toxic Effects of Chemical Substances (RTECS), Environmental Protection Bureau Library, International Agency for Research on Cancer (IARC) Monographs, CAS Registry Online, Hazardous Substance Data Bank (HSDB), National Library of Medicine/Toxline, National Library of Medicine ToxSeek, Health Effects Assessment Summary Tables (HEAST), National Toxicology Program (NTP) Study Database, Entrez PubMed, Scirus, IPCS Intox Databank and CalEPA's Toxicity Values Database.

An extensive search of the literature revealed only one rat LD50 submitted through TsCA for Monsanto Co. A value of 6,550 mg/kg was listed with toxic effects of respiratory depression and gastrointestinal distress.

Pursuant to R232(h), the ITSL calculates to:

$$\text{ITSL} = \frac{1}{500} \times \frac{1}{40} \times \frac{1}{100} \times \frac{\text{LD50 (mg/kg)} \times *W_A}{0.167 \times I_A}$$

= 19.6 or ~20 ug/m³, annual

*W_A/I_A ratio default = 1