

# Protective Action Criteria (PAC) list to EPICode Project update

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# The Idea

- Wouldn't it be cool if we could just import the whole PAC datasheet into EPICode in one large file

# The Crew



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# Process

- Discussed with Players
- Received easier to manipulate version of the PAC data from J.A. Bond (ATL)
- Rojas wrote macro to match data structure
- URS guys gathered data to fill in gaps
  - If it wasn't in the TEELs, its probably because it doesn't exist or it isn't applicable.
  - Data in the TEELs is quite thorough.
- URS guys and Rojas conducted quality checks on data transfer

# The \*.epi file

- Nicely consistent data structure

Substance Name	=	Acacia; (Gum arabic) 9000-01-5
Notes	=	
Molecular Weight (g/mole)	=	2.400E+05
Boiling Point (deg C)	=	2.800E+02
Freezing Point (deg C)	=	9.180E+01
Specific Gravity (g/cc)	=	8.987E-01
Vapor Pressure (torr)	=	7.5x10-3
Vapor Pressure Temperature (deg C)	=	2.400E+01
Dilution Fraction	=	1.000E+00
ERPG Units	=	
ERPG-1	=	
ERPG-2	=	
ERPG-3	=	
TEEL Units	=	mg/m3
TEEL-1	=	500
TEEL-2	=	500
TEEL-3	=	500
AEGL Units	=	
Exposure Time 1	=	
Exposure Time 5	=	
Exposure Time 5 Unit	=	
AEGL-1	=	
AEGL-2	=	
AEGL-3	=	

# Lessons Learned From Data Development

- There's a lot of physical properties for materials where there just isn't any published data
- The URS crew poured through all of the usual chemical data sources (Perry's, online resources, etc.)
- Tried to narrow the project – only stuff with more abundant data

# Results

- The macro developed the \*.epi file nicely
- To a human, the file looked really good
- File worked once . . . Then scrambled
- Seemed to be too big for EPICode
- Talked with Steve – would damage the SQA for EPICode



# Declare a Moral Victory!

Call the Action  
Item Closed