

# UPDATE ON TEEL TECHNICAL DEVELOPMENTS

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# “TEELs Rev 21”

- Acute Exposure Guideline Limits (AEGGLs)
- Emergency Response Planning Guidelines (ERPGs)
- Lists PACs for 2946 chemicals

# AEGs

- DOE-NA first choice for Protective Action Criteria (PACs)
- Final (24) and Interim (63) AEGs used (87 total)
- Sixty-minute AEGs selected as PACs

# ERPGs

- DOE-NA second choice for PACs
- One-hundred-fourteen chemicals in AIHA 2005 Handbook
- Some duplication of chemicals with AEGLs
- Seventy chemicals with ERPGs and no AEGLs

# TEELs Rev 21 statistics

- 156 chemicals with AEGs and/or ERPGs
- 2790 chemicals have only TEELs
- 72 use Structure Activity Relationships (SAR)
- 599 chemicals on list not in SAX
- 166 of these also not in ChemBank databases
- 159 gases (G) at 25<sup>0</sup>C and 760 mmHg
- 998 chemicals are liquids (L)
- 1726 chemicals are solids
- 63 chemicals have state unknown to author

# “TEELs Rev 22”

- Chemicals added to Rev. 21 list
- Publication
- Other changes
- Conclusions

# Chemicals added to Rev. 21 list

- 356 additional chemicals at present
- TEELs derived for 120 of these to date
- TEELs remain to be derived for 236 chemicals
- TEELs derived for additional chemicals on as-needed basis

# PUBLICATION GOAL

- September 30, 2006
  - On DOE-EH Chemical Safety web site
  - On SCAPA web site
- No printed version envisaged
- PACs for approximately 3300 chemicals

# OTHER CHANGES

- Some TEELs changed because of input from users
- Suggestions for improvements received from several individuals
- Simple asphyxiant TEEL values further adjusted
- All Visual Basic macros reviewed, revised as needed

# CONCLUSIONS

- Papers presented
  - at ANS Symposium in February
  - Society of Toxicology meeting in March
    - updates to published methodology
- SQA completed since last meeting
- QA of data selection and input in progress
- “TEELs Rev 22” will have PACs for about 3300 chemicals