

New Acute HCNs (Health Code Numbers)

*Rocky Petrocchi
Washington Group International, Inc.*



Current Chronic vs Acute HCNs

Chronic

- 3.00 Chronic systemic toxin
- 3.01 Bladder
- 3.02 Hematological effects
(unspecified)
- 3.03 Bone
- 3.04 Bone marrow
- 3.05 Brain
- 3.06 Eye (chronic ocular)
- 3.07 Gastrointestinal tract
- 3.08 Heart
- 3.09 Kidney
- 3.10 Liver
- 3.11 Skin
- 3.12 Skin perforation

Acute

- 4.00 Acute systemic toxin--short-term,
high hazard effects
- 4.01 Eye (acute, other than irritation)
- 4.02 Nose



Lack of Acute HCNs...Problems

- Many acute-effect HCNs never defined
- Acute effects—most life-limiting in emergency event
- Forced to use chronic HCNs as “surrogates” for acute effects
 - Skews results toward chronic side
 - Not sound practice



New Acute HCNs...Solutions

Chronic

Acute

3.00	Chronic systemic toxin	4.00	Acute systemic toxin--short-term, high hazard effects
3.01	Bladder (chronic effects)	4.01	Eye (acute, other than irritation)
3.02	Hematological effects (chronic, unspecified)	4.02	Nose (acute effects)
3.03	Bone	4.03	Bladder (acute effects)
3.04	Bone marrow (chronic blood-forming system and other chronic effects)	4.04	Bone marrow (acute blood-forming system and other acute effects)
3.05	Brain (chronic effects)	4.05	Brain (acute effects)
3.06	Eye (chronic ocular)	4.06	Hematological effects (acute, unspecified)
3.07	Gastrointestinal tract (chronic effects)	4.07	Gastrointestinal tract (acute effects)
3.08	Heart (chronic cardiovascular and other chronic effects)	4.08	Heart (acute cardiovascular and other acute effects)
3.09	Kidney (chronic effects)	4.09	Kidney (acute effects)
3.10	Liver (chronic effects)	4.10	Liver (acute effects)
3.11	Skin (dermatitis, sensitization, and other chronic effects)	4.11	Skin (acute effects)
3.12	Skin perforation (nasal septum perforation and other chronic effects other than skin absorption)	4.12	Skin perforation (acute effects other than skin absorption)



New Acute Respiratory HCN

Chronic

Acute

10.00 Chronic respiratory toxin

11.00 Acute respiratory toxin

11.01 *Acute respiratory toxin (severe or moderate but not mild irritant effects)*

- Rationale.....

- Severe/moderate irritation significantly inhibits protective-action & self-rescue ability
- Should be higher priority than other resp effects
- Need new HCN to make priority assignment



Implementing new HCNs

- **Going forward.....**
 - Start using new HCNs with TEELs Rev 20
- **Previous TEEL Revisions**
 - Revise HCNs as chemicals come up for review



Proposal Status

- **Approved by TEEL Advisory Group (TAG)**
- **Reviewed by SCAPA listserve members**
 - **No dissenting comments**
- **Will be submitted to DOE-OEM**
 - **For implementation approval**

