

Chemical	Sodium hydroxide
CAS Number	1310-73-2
Category	Category III
Cancer Classification	EPA: Not Evaluated IARC: Not Evaluated NTP: No Report
Proposed HAAS	6.67 ug/m ³
Basis of Proposed HAAS	Information cited in ACGIH TLV documentation
Basis of Value used to derive Proposed HAAS	Critical Effect: Irritation of eyes, mucous membranes and skin Study Animal: Human Exposure Route: Inhalation, occupational
Dose Extrapolation Method	NOAEL,LOAEL
Notes	ACGIH notes ceiling of 2,000 ug/m ³ is based upon a concentration that produces noticeable but not excessive ocular and upper respiratory tract irritation in humans. Two studies are cited that reported noticeable irritation at less than this concentration. Thus, 2,000ug/m ³ was employed as LOAEL in development of HAAS.
Additional Tox and/or Occupational Values	VOSHA 1910.1 PEL 2,000 ug/m ³ Ceiling NIOSH REL 2,000 ug/m ³ Ceiling IDLH 10,000 ug/m ³
Comparison Values	
Derivation of HAAS: $\text{HAAS (ug/m}^3\text{)} = \frac{\text{LOAEL}}{\text{UF}}$ UF = 3 for intra-species variability UF = 10 for lack of NOAEL, use of LOAEL (in this case ceiling level used as LOAEL) UF = 10 for less than chronic study/data $= \frac{2,000}{3 \times 10 \times 10}$ $\cong 6.67 \text{ ug/m}^3$	