

**Figure A.3.1 Evaluation strategy for serious eye damage and eye irritation
(See also Figure A.2.1)**

Step	Parameter	Finding	Conclusion
1a:	Existing human or animal data, eye ¹	→ Serious Eye Damage	→ Category 1 ²
	↓ No/insufficient data or unknown	→ Eye Irritant	→ Category 2 ²
1b:	Existing human or animal data, skin corrosion	→ Skin corrosive	→ Category 1 ²
	↓ No/insufficient data or unknown		
1c:	Existing human or animal data, eye ¹	→ Existing data that show that substance does not cause serious eye damage or eye irritation	→ Not Classified
	↓ No/insufficient data		
2:	Other, existing skin/eye data in animals ³	→ Yes; existing data that show that substance may cause serious eye damage or eye irritation	→ Category 1 or Category 2 ²
	↓ No/insufficient data		
3:	Existing <i>ex vivo</i> / <i>in vitro</i> data ⁴	→ Positive: serious eye damage	→ Category 1 ²
	↓ No/insufficient data / negative response	→ Positive: eye irritant	→ Category 2 ²
4:	pH-Based assessment (with consideration of buffering capacity of the chemical, or no buffering capacity data) ⁵	→ pH ≤ 2 or ≥ 11.5	→ Category 1 ²
	↓ Not a pH extreme, no pH data, or extreme pH with low/no buffering capacity		
5:	Validated structure/activity relationship (SAR) models	→ Severe damage to eyes	→ Category 1 ²
	↓ No/insufficient data	→ Eye irritant → Skin Corrosive	→ Category 2 ² → Category 1 ²
6:	Consideration of the total weight of evidence ⁶	→ Serious eye damage	→ Category 1 ²
	↓ No concern based on consideration of the sum of available data	→ Eye irritant	→ Category 2 ²
7:	Not Classified		

Notes to Figure A.3.1:

¹ Evidence of existing human or animal data may be derived from single or repeated exposure(s) in occupational, consumer, transportation, or emergency response scenarios; from ethically-conducted human clinical studies; or from purposely-generated data from animal studies conducted according to scientifically validated test methods. At present, there are no internationally accepted test methods for human skin or eye irritation testing.

² Classify in the appropriate harmonized category, as shown in Tables A.3.1 and A.3.2.