

| Substance Name | CASRN | In Vitro Conc. Tested | In Vivo Conc. Tested | Chemical Class | In Vivo Physical Form Tested | pH | Property of Interest | In Vivo (GHS) Classification ¹ | GHS Category 1 Subclass ² | In Vivo (EPA) Classification ³ | In Vivo (EU) Classification ⁴ | In Vitro Classification (S-Score) ⁵ | Reference |
|------------------------------------|------------|-----------------------|----------------------|---|------------------------------|----|----------------------|---|--------------------------------------|---|--|--|---------------------|
| Ammonium nitrate | 6484-52-2 | 100% | 100% | Inorganic salt, Onium | Solid | | | Category 2B | | Category III | R36 | Severe | Balls et al. (1995) |
| L-Aspartic acid | 70-47-3 | 100% | 100% | Amino acid | Solid | | | SCNM | | SCNM | SCNM | Nonirritant | Balls et al. (1995) |
| Benzoyl-L-tartaric acid | 2743-38-6 | 100% | 100% | Carboxylic acid, Ester | Solid | | | Category 1 | 2 | SCNM | R41 | Nonirritant | Balls et al. (1995) |
| Captan 90 concentrate | 133-06-2 | 100% | 100% | Imide, Organic sulfur compound | Solid | | | Category 1 | 4 | Category I | R41 | Nonirritant | Balls et al. (1995) |
| 4-Carboxybenzaldehyde | 619-66-9 | 100% | 100% | Carboxylic acid, Aldehyde | Solid | | | Category 2A | | Category II | R36 | Moderate | Balls et al. (1995) |
| Chlorhexidine | 55-56-1 | 100% | 100% | Amidine | Solid | | | Category 1 | 4 | SCNM | SCNM | Moderate | Balls et al. (1995) |
| Dibenzyl phosphate | 1623-08-1 | 100% | 100% | Ester | Solid | | | Category 2A | | Category II | R36 | Severe | Balls et al. (1995) |
| 2,5-Dimethylhexanediol | 110-03-2 | 100% | 100% | Alcohol | Solid | | | Category 1 | 1 | Category I | R41 | Severe | Balls et al. (1995) |
| Fomesafen | 72128-02-0 | 100% | 100% | Imide, Ether, Nitro compound | Solid | | | Nonirritant | | Category III | Nonirritant | Moderate | Balls et al. (1995) |
| Imidazole | 288-32-4 | 100% | 100% | Heterocycle | Solid | | | Category 1 | 4 | Category I | R41 | Severe | Balls et al. (1995) |
| Maneb | 12427-38-2 | 100% | 100% | Amine, Organic salt, Urea | Solid | | | SCNM | | Category III | SCNM | Nonirritant | Balls et al. (1995) |
| 1-Naphthalene acetic acid | 86-87-3 | 100% | 100% | Carboxylic acid, Polycyclic compound | Solid | | | Category 1 | NC | Category I | SCNM | Moderate | Balls et al. (1995) |
| 1-Naphthalene acetic acid, Na salt | 61-31-4 | 100% | 100% | Organic salt, Carboxylic acid salt, Polycyclic compound | Solid | | | Category 1 | 1 | Category I | R41 | Severe | Balls et al. (1995) |
| Potassium cyanate | 590-28-3 | 100% | 100% | Inorganic salt | Solid | | | SCNM | | SCNM | SCNM | Severe | Balls et al. (1995) |
| Promethazine HCl | 58-33-3 | 100% | 100% | Amine, Heterocycle, Organic sulfur compound | Solid | | | Category 1 | 1 | Category I | R41 | Severe | Balls et al. (1995) |
| Quinacrine | 69-05-6 | 100% | 100% | Amine, Heterocycle, Polycyclic compound | Solid | | | Category 1 | 3 | Category I | R41 | Nonirritant | Balls et al. (1995) |
| Sodium oxalate | 62-76-0 | 100% | 100% | Organic salt, Carboxylic acid salt | Solid | | | Category 1 | 4 | Category I | R41 | Moderate | Balls et al. (1995) |

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|----------------------------------|------------|------------------------------------|-----------------------------------|--|--|----|-------------------------|---|--|---|--|---|---------------------|
| Sodium perborate | 10486-00-7 | 100% | 100% | Inorganic salt, Boron containing compound | Solid | | | Category 1 | 4 | Category I | R41 | Nonirritant | Balls et al. (1995) |
| Tetraamino-pyrimidine sulfate | 5392-28-9 | 100% | 100% | Amine, Heterocycle | Solid | | | Nonirritant | | Category III | Nonirritant | Nonirritant | Balls et al. (1995) |
| Thiourea | 62-56-6 | 100% | 100% | Organic sulfur compound | Solid | | | | | | | Severe | Balls et al. (1995) |

Abbreviations: CASRN = Chemical Abstracts Service Registry Number; Conc. = Concentration; EPA = U.S. Environmental Protection Agency; EU = European Union; GHS = Globally Harmonized System; SCNM - Study Criteria Not Met.

¹Eye Irritant Category 1 = irreversible effects on the eye/serious damage to the eye; Category 2A = reversible effects on the eye/irritating to the eyes; Category 2B = reversible effects on the eye/mildly irritating to the eyes; Nonirritant = not an eye irritant

²NICEATM-defined subgroups assigned based on the lesions that drove classification of a GHS Category 1 substance. 1: based on lesions that are persistent; 2: based on lesions that are severe (not including corneal opacity score equal to 4); 3: based on lesions that are severe (not including corneal opacity score equal to 4) and persistent; 4: corneal opacity score equal to 4 at any time; NC: No subclassification could be made based on the data.

³Toxicity Category I for the Primary Eye Irritation Study = Corrosive, or corneal involvement or irritation not reversible within 21 days; Category II = Corneal involvement or irritation clearing in 8-21 days; Category III = Corneal involvement or irritation clearing in 7 days or less; Category IV = Minimal effects clearing within 24 hr.

⁴Risk phrase R41 = risk of serious damage to the eyes; R36 = irritating to the eyes; nonirritant = not an eye irritant.

⁵S-Score represents irritation scores that were calculated using the method described in Balls et al. (1995).