Australian Government
Department of Health and Aged Care
Australian Industrial Chemicals Introduction Scheme

Chemicals that are unlikely to require further regulation to manage risks to human health

Evaluation statement

22 December 2022

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AICIS evaluation statement

Subject of the evaluation

Chemicals that are unlikely to require further regulation to manage risks to human health

Chemicals in this evaluation

See supporting information for the list of chemicals included in the evaluation.

Reason for the evaluation

Evaluation is needed to provide information on human health risks.

Parameters of evaluation

This evaluation provides information on chemicals, listed on the Australian Inventory of Industrial Chemicals (the Inventory), identified during the Evaluation Selection Analysis (ESA) process as unlikely to require further regulation to manage risks to health. The ESA takes into account the intrinsic hazard of the chemical, the potential human exposure and existing risk management measures.

Based on the use category, the ESA process first sought to validate the absence of the following hazards:

- Site limited; neurotoxic, carcinogenic, mutagenic or a reproductive toxin.
- Commercial; as above, plus very high acute toxicity, high repeat dose toxicity, high corrosivity and respiratory sensitisation.
- Domestic; as above plus moderate acute toxicity, moderate repeat dose toxicity, skin sensitisation and moderate corrosivity.
- Cosmetic; any classifiable hazard, including harmful by acute exposure and irritating to skin and eyes.

Where these hazards were identified, we considered whether the hazards would be present under the likely conditions of use, which were determined based on available information. For example, where a chemical is irritating because of its extreme pH, and the formulated product will be at a more neutral pH, the irritant property is not relevant to the product. This evaluation statement provides key information used during the ESA process including the highest use category and additional information on any factors that have contributed to risk conclusions.

During the ESA, we may also identify chemicals that are only used in laboratories in very small quantities. No evaluation of hazards was undertaken for these chemicals.

Summary of evaluation

Summary of introduction, use and end use

See supporting information for the highest use category identified for each chemical. The categories used by AICIS, in order of increasing exposure, are:

- Non-industrial excluded uses (only); food, therapeutic, agricultural, and veterinary.
- Site limited; only used in large chemical operations.
- Commercial; used by small factories, scattered through the community, industrial cleaning, operations, and rare use by specialised hobbyist members of the public.
- Domestic; used in products generally available to the public, excluding cosmetics.
- Cosmetic; personal care products.

Human health

Summary of health risk

Public

Based on the available information, there are no identified risks to the public that require further regulation to manage the risk to human health. Although some of the chemicals with cosmetic and domestic uses may have potential health hazards, risks to the public are minimised by:

- the concentrations to which the public are exposed
- normal precautions being taken when using domestic products to avoid skin and eye contact
- the systemic bioavailability of chemicals.

See supporting information for additional information on any factors that have contributed to the risk conclusions. Any requirements under poisons legislation as adopted by the relevant state or territory should be met to minimise risk.

Workers

Based on the available information, there are no identified risks to workers that require further regulation to manage the risk to health.

Although chemicals in this evaluation may meet the criteria for classification according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) based on the highest category of use identified (see **Supporting information**), controls to manage the risk to workers are expected to be in place.

All requirements under workplace health and safety as adopted by the relevant state or territory should be met to minimise risk.

Conclusions

The conclusions of this evaluation are based on the information described in this statement.

Considering the proposed means of managing risks, the Executive Director is satisfied that the identified human health risks can be managed within existing risk management frameworks. This is provided that all requirements are met under environmental, workplace health and safety and poisons legislation as adopted by the relevant state or territory and the proposed means of managing the risks identified during this evaluation are implemented.

Note: Obligations to report additional information about hazards under *Section 100* of the *Industrial Chemicals Act 2019* apply.

Supporting information

CAS No	Chemical Name	Highest Use Category (Human Health)	Additional information
91-24-7	Benzenesulfonic acid, 2-ethyl-	Commercial	-
104-15-4	Benzenesulfonic acid, 4-methyl-	Cosmetic	At cosmetic formulation pH, exposure to the free acid would only be at very low concentrations. Corrosive effects are not expected.
138-29-4	Benzenesulfonic acid, 3-ethyl-	Commercial	-
657-84-1	Benzenesulfonic acid, 4-methyl-, sodium salt	Cosmetic	Data available indicate that it may be used in cosmetic products, but only at low concentrations.
6192-52-5	Benzenesulfonic acid, 4-methyl-, monohydrate	Cosmetic	At cosmetic formulation pH, exposure to the free acid would only be at very low concentrations. Corrosive effects are not expected.
12068-03-0	Benzenesulfonic acid, methyl-, sodium salt	Cosmetic	Data available indicate that it may be used in cosmetic products, but only at low concentrations.
13732-62-2	Morpholine, 4-methylbenzene sulfonate	Commercial	-
15404-00-9	Ethanamine, N,N-diethyl-, 4-methylbenzenesulfonate	Commercial	-
15497-96-8	Benzenesulfonic acid, 4-ethyl-, potassium salt	Domestic	Data available indicate that it may be used in domestic products, but only at low concentrations.
16066-35-6	Benzenesulfonic acid, 4-(1-methylethyl)-	Commercial	-
16106-44-8	Benzenesulfonic acid, 4-methyl-, potassium salt	Cosmetic	Data available indicate that it may be used in cosmetic products, but only at low concentrations.
25321-41-9	Benzenesulfonic acid, dimethyl-	Domestic	Data available indicate that it may be used in domestic products, but only at low concentrations.
27503-81-7	1H-Benzimidazole-5-sulfonic acid, 2-phenyl-	Cosmetic	-
28208-80-2	2-Propenoic acid, polymer with ethene, zinc salt	Cosmetic	-
28516-43-0	2-Propenoic acid, 2-methyl-, polymer with ethene, zinc salt	Domestic	-
28631-63-2	Benzenesulfonic acid, 2(or 4)-(1-methylethyl)-	Commercial	-

30346-73-7	Benzenesulfonic acid, dimethyl-, potassium salt	Cosmetic	-
30526-22-8	Benzenesulfonic acid, methyl-, potassium salt	Domestic	Data available indicate that it may be used in domestic products, but only at low concentrations.
30995-65-4	Benzenesulfonic acid, ethyl-, sodium salt	Domestic	Data available indicate that it may be used in domestic products, but only at low concentrations.
55554-35-3	2-Propenoic acid, polymer with ethenylbenzene, zinc salt	Domestic	-
61168-61-4	Benzenesulfonic acid, ethyl-, potassium salt	Domestic	Data available indicate that it may be used in domestic products, but only at low concentrations.
61168-62-5	Benzenesulfonic acid, ethyl-, ammonium salt	Domestic	Data available indicate that it may be used in domestic products, but only at low concentrations.
61347-40-8	Benzenesulfonic acid, 2,3(or 3,4)-dimethyl-, compound with 2-aminoethanol (1:1)	Commercial	-
61843-71-8	2-Propenoic acid, 2-methyl-, polymer with ethene and 2-methylpropyl 2-propenoate, zinc salt	Domestic	-
62180-77-2	2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and methyl 2-methyl-2-propenoate, zinc salt	Domestic	-
63150-14-1	Ethanol, 2-(dimethylamino)-, 4-methylbenzenesulfonate (salt)	Commercial	-
68298-05-5	1-Propanol, 2-amino-2-methyl-, 4-methylbenzenesulfonate (salt)	Commercial	-
68607-34-1	Resin acids and Rosin acids, zinc salts, polymers with linseed oil	Domestic	-
103458-18-0	Benzenesulfonic acid, 3,5-dimethyl-, compound with 2,2'-iminobis[ethanol] (1:1)	Commercial	-
103458-19-1	Benzenesulfonic acid, 3,5-dimethyl-, compound with 2,2',2''-nitriltris[ethanol] (1:1)	Commercial	-
103458-20-4	Benzenesulfonic acid, 4-ethyl-, compound with 2-aminoethanol (1:1)	Commercial	-
103458-21-5	Benzenesulfonic acid, 4-ethyl-, compound with 2,2'-iminobis[ethanol] (1:1)	Commercial	-

103458-22-6	Benzenesulfonic acid, 4-ethyl-, compound with 2,2',2''-nitrilotris[ethanol] (1:1)	Commercial	-
104037-73-2	Butanedioic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester, polymer with butyl 2-propenoate, ethenylbenzene and methyl 2-methyl-2-propenoate, reaction products with zinc oxide	Domestic	-
112742-90-2	2-Propenoic acid, polymer with ethenylbenzene, ammonium zinc salt	Domestic	-
121158-59-6	1,5-Pentanediamine, 2-methyl-, polymer with 1,4-cyclohexamedimethanol, 1,3-benzenedicarboxylic acid, zinc oxide modified	Domestic	-
125612-27-3	Decanedioic acid, polymer with 1,6-hexanediol, reaction products with Bu acrylate-Me methacrylate-mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] succinate-styrene polymer zinc salt	Domestic	-
125612-34-2	Butanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with butyl 2-propenoate, ethenylbenzene and methyl 2-methyl-2-propenoate, zinc salt	Domestic	-
126755-09-7	1,3-Benzenedicarboxylic acid, polymer with 2-methyl-1,5-pentanediamine, zinc salt	Domestic	-
129678-02-0	2-Propanol, 1,1'-iminobis-, 4-methylbenzenesulfonate (1:1)	Commercial	-
185529-26-4	2-Propenoic acid, polymer with ethenylbenzene and (1-methylethenyl)benzene, zinc salt	Domestic	-
897929-12-3	1,3-Benzenedicarboxylic acid, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and nonanedioic acid, reaction products with cyclohexylamine and zinc distearate	Domestic	-

References

AICIS (Australian Industrial Chemicals Introduction Scheme) (2019), *The Industrial Chemicals Act 2019*, Office of Chemical Safety, Australian Government Department of Health, accessed October 2022.

AICIS (Australian Industrial Chemicals Introduction Scheme) (n.d.), *The Australian Inventory of Industrial Chemicals (Inventory)*, Office of Chemical Safety, Australian Government Department of Health, accessed October 2022.