Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2021-4440
Application: Changes TGAI Product Chemistry-New Source (site) same registrant
Product: Sodium Hypochlorite 10.8%
Registration Number: 23344
Active ingredient (a.i.): Sodium hypochlorite
PMRA Document Number : 3463747

Purpose of Application

The purpose of this application was to add a new manufacturing site to the registration of the Sodium Hypochlorite 10.8%.

Chemistry Assessment

Common Name: sodium hypochlorite
IUPAC* Chemical Name: sodium hypochlorite
CAS† Chemical Name: hypochlorous acid, sodium salt (1:1)

* International Union of Pure and Applied Chemistry
† Chemical Abstracts Service

Sodium Hypochlorite 10.8% has the following properties:

Property	Result
Colour and physical state	Clear greenish-yellow liquid
Nominal concentration	10.9% (available chlorine present as sodium hypochlorite)
Odour	Strong chlorine odour
Specific gravity at 20°C	1.16 – 1.17
Vapour pressure	3.2 kPa at 25°C
pH	12.3 – 12.6
Solubility in water	Completely miscible
n-Octanol/water partition coefficient	N/A (Product is an aqueous solution, not soluble in octanol)

The required chemistry data for Sodium Hypochlorite 10.8% have been provided, reviewed, and found to be acceptable.

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Health, Environmental and Value Assessments

Health, environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to add the new manufacturing site to the registration of Sodium Hypochlorite 10.8%.

References

PMRA Document Number	Reference
3264601	2021, QC-WI-XXXX Sodium Hypochlorite Manufacturing - Eng - 20210713, DACO: 2.11,2.11.1 CBI
3264602	2021, NaOCl – [CBI removed] - Machine Manual - Eng - Job 21430B, DACO: 2.11.2, 2.11.3 CBI
3264605	2021, NaOCl - BCI - Discussion, Formation of Impurities, Various Sources - Eng - 20210707, DACO: 2.11.4 CBI
3264606	2021, 20210625 - QS06 - Kaizen Test Reports And Summary - Collected Mk III, DACO: 2.12.1,2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3339279	2021, Summary of test reports executed by [Private info removed], covering five (5) individual lots of manufactured Sodium Hypochlorite, 12% Trade (10.3% Available Chlorine by weight, 10.8% Sodium Hypochlorite by weight), DACO: 2.13.3 CBI
3341748	2022, NaOCl - [CBI removed] - Summary - BCI - 20220403.pdf, DACO: 2.13.3 CBI
3350113	2022, Complementary Batch Data - Batch Date of Production & Batch Volume, DACO: 2.13.3
3362709	2017, BS08 - Laboratory Manual - Eng - Update - 201703, DACO: 2.13.1
3362710	1994, EPA 200.2 Rev 2.8 - Sample Prep For [CBI removed] - Eng - 1994, DACO: 2.13.1
3362711	2007, EPA 331.0 6850 - [CBI removed] In H2O - Eng - 200701, DACO: 2.13.1
3362712	2017, NEMI 3120 Metals by [CBI removed] - SMEWWW 2rd Edn - Eng - 2017, DACO: 2.13.1
3362713	2017, NEMI 4110 Detn Of Anions by [CBI removed] - SMEWWW 2rd Edn - Eng - 2017, DACO: 2.13.1
3362714	2022, Test Methods Clarification - BCI - Response to PMRA Query of May 17, 2022, DACO: 2.13.1