

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2020-1082
Application: Changes to TGAI Product Chemistry - New Source Same Registrant
Product: 19% w/v SODIUM HYPOCHLORITE
Registration Number: 25136
Active ingredients (a.i.): Available chlorine, present as sodium hypochlorite
PMRA Document Number: 3294013

Purpose of Application

The purpose of this application was to add a new manufacturing site for the technical product, 19% w/v SODIUM HYPOCHLORITE.

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

19% w/v Sodium Hypochlorite has the following properties:

Property	Result
Colour and physical state	Pale greenish-yellow to colourless liquid
Nominal concentration	14.5% available chlorine, present as sodium hypochlorite
Odour	Chlorine
Density	1.251 g/mL
Vapour pressure	195 Pa
pH	13
Solubility in water	Completely miscible
n-Octanol/water partition coefficient	$\log P_{ow} = -2.4$

The required chemistry data for 19% w/v Sodium Hypochlorite have been provided, reviewed, and found to be acceptable.

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 it sufficient to support the addition of the new manufacturing site for 19% w/v Sodium Hypochlorite.

References

PMRA Document Number	Reference
3103837	2020, 2.11.1, DACO: 2.11.1 CBI
3103838	2020, 2.11.2-2.11.3, DACO: 2.11.2,2.11.3 CBI
3103839	2015, Chemical and Physical Properties, DACO: 2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14,2.14.2,2.14.3,2.14.4,2.14.5,2.14.6,2.14.7,2.14.8,2.14.9 CBI
3168279	2020, 2.11.1, DACO: 2.11.2,2.11.3,2.11.4 CBI
3168280	2020, Test Report on Analysis, DACO: 2.13.1,2.13.3 CBI
3168281	2020, Test Report on Analysis, DACO: 2.13.1,2.13.3 CBI
3168282	2020, Test Report on Analysis, DACO: 2.13.1,2.13.3 CBI
3168283	2020, Test Report on Analysis, DACO: 2.13.1,2.13.3 CBI
3168284	2020, Test Report on Analysis, DACO: 2.13.1,2.13.3 CBI
3168285	2020, Appendix C-Potentiometric Titration of Sodium Hypochlorite Solutions, DACO: 2.13.1,2.13.2 CBI
3168286	American Water Works Association, 2010, Hypochlorites, DACO: 2.13.1,2.13.2
3168287	2020, Certificate of Analysis 2709, DACO: 2.14.15,830.7000 CBI

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