

Evaluation Report for Category B, Subcategory B.1.2 Application

Application Number: 2013-2793
Application: New Source of Technical Grade Active Ingredient by a New Registrant
Product: Hebei Jiheng 56
Registration Number: 31705
Active ingredients (a.i.): Available chlorine, present as sodium dichloro-s-triazinetriene dihydrate
PMRA Document Number: 2492980

Background

The source of available chlorine, present as sodium dichloro-s-triazinetriene dihydrate used to determine chemical equivalency was Registration Number 30512.

Purpose of Application

The purpose of this application was to register a new source of the technical grade active ingredient, available chlorine, present as sodium dichloro-s-triazinetriene dihydrate, by a different Registrant.

Chemistry Assessment

Common Name: No ISO approved common name
IUPAC Chemical Name: sodium 1,5-dichloro-4,6-dioxo-1,4,5,6-tetrahydro-1,3,5-triazin-2-olate, dihydrate
CAS Chemical Name: 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt dihydrate

Hebei Jiheng 56 has the following properties:

Property	Result
Colour and physical state	White granular solid
Nominal guarantee	Available chlorine, present as sodium dichloro-s-triazinetriene dihydrate at 56% Available chlorine present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins at 28.6% (limits 27.7-29.5%)
Odour	Slight odour of chlorine
Density	0.94-0.98 g/cm ³
Vapour pressure	< 0.006 Pa at 20°C

Property	Result
Solubility in water	24 g/L
n-Octanol/water partition coefficient	Not applicable.

The chemistry requirements for Hebei Jiheng 56 have been fulfilled.

Health and Environmental Assessments

As the new source of available chlorine, present as sodium dichloro-s-triazinetrione dihydrate is chemically equivalent to the registered source, the health and environmental risk profiles are expected to be similar to that of the product used to determine chemical equivalence. No additional assessments were required.

Value Assessment

A value assessment is not required for technical grade active ingredient products.

Conclusion

The PMRA has completed an evaluation of the subject application and has determined that it can support the registration of Hebei Jiheng 56.

References

PMRA Document Number	Reference
PMRA # 2308025	General Chemistry Requirements, DACO: 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
PMRA # 2308026	2007, Product Chemistry Data and Requirements Series 61, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1 CBI
PMRA # 2308027	2007, Analysis and Certification of Product Ingredients Series 62, DACO: 2.12.1, 2.13.1, 2.13.2 CBI
PMRA # 2308033	Batch data, DACO: 2.13.3 CBI
PMRA # 2308034	2013, General Phys/Chem, DACO: 2.14.1, 2.14.10, 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
PMRA # 2308035	J. OBrien, J. Morris, J. Butler, 1974, Equilibria in aqueous solutions of chlorinated isocyanurates, In: Chemical Water Supply Treatment District Symposium, 1973. (A. Rubin, Ed.), Ann Arbor Sciences, 1974, 333-358, DACO: 2.14.11, 2.14.12
PMRA # 2308036	2010, Storage Stability and Corrosion Characteristics, DACO: 2.14.13, 2.14.14 CBI
PMRA # 2393948	2014, Revised Detailed Production Process, DACO: 2.11.3 CBI
PMRA # 2393949	2014, Clarification Response to Impurities Concern, DACO: 2.13.4 CBI

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