

Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

Application Number: 2009-1545
Application: New/Changes to TGAI Product Chemistry – New Source (Site)
 Same Registrant;
 New/Changes to TGAI Product Chemistry - Specification
Product: Diphenylamine Technical
Registration Number: 29636
Active ingredients (a.i.): Diphenylamine [DPA]
PMRA Document Number: 1871504

Purpose of Application

The purpose of this application was to register a source of a technical product, Diphenylamine Technical.

Chemistry Assessment

Accepted Name: Diphenylamine
 Chemical Name: *N*-phenylbenzenamine

Diphenylamine Technical has the following properties:

Property	Result
Colour and physical state	Cream coloured solid flakes
Nominal concentration	99.8 %
Odour	sharp creosote odour
Specific gravity	1.177
Vapour pressure	8.52×10^{-2} Pa (25 °C)
pH	6.4 (1 % aqueous solution)
Solubility in water	0.0394 mg/L at 25°C
n-Octanol/water partition coefficient	$\log K_{ow} = 3.6$ at 25 °C

The chemistry requirements for Diphenylamine Technical are complete.

Health Assessments

A toxicology assessment was not required for this application as there was no change to the product formulation.

No new residue data for diphenylamine were submitted. A review of the product label and specification form was conducted in the framework of this application. The new source of Diphenylamine Technical is not expected to impact dietary residues of diphenylamine given that there are no changes to the concentration of diphenylamine in the associated end-use products. As such, exposure to residues of diphenylamine is not expected to increase for all population subgroups.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The PMRA has completed an evaluation of the subject application. The PMRA has found the information sufficient to support the registration of the new source of Diphenylamine Technical.

References

- 1750931 2008, Diphenylamine Technical - Product Identity, Composition, and Analysis, DACO: 3.2, 3.2.1, 3.2.2, 3.2.3 CBI
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- 1750933 2008, Enforcement Analytical Method, DACO: 2.13.1
- 1750926 1992, Diphenylamine - Color, Physical State, Odor, Melting Point, Density, pH, DACO: 2.14.1, 2.14.2, 2.14.3, 2.14.4, 2.14.6
- 1750929 1993, Diphenylamine - Solubility, DACO: 2.14.7, 2.14.8
- 1750930 1993, Diphenylamine - Vapor Pressure, DACO: 2.14.9
- 1750927 1993, Diphenylamine - Dissociation Constant, DACO: 2.14.10
- 1750928 1993, Diphenylamine - Octanol/Water Partition Coefficient, DACO: 2.14.11
- 1788357 1999, Diphenylamine: Determination of UV-Visible Absorption Spectrum, DACO: 2.14.12
- 1788358 1993, Diphenylamine - Stability, DACO: 2.14.13, 2.14.14

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