

# **Evaluation Report for Category B, Subcategory 1.1 Application**

**Application Number:** 2013-2744

**Application:** New / Changes TGAI or ISP Prod Chemistry-New Source (site)

**Product:** Hexazinone Technical Herbicide

**Registration Number:** 19544 **Active ingredients (a.i.):** Hexazinone **PMRA Document Number:** 2468105

# **Purpose of Application**

The purpose of this application was to add a new source of technical grade active ingredient by the same registrant to the currently registered product Hexazinone Technical Herbicide.

# **Chemistry Assessment**

**Common Name:** Hexazinone

**IUPAC\* Chemical Name:** 3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-

2,4(1H,3H)-dione

**CAS**† **Chemical Name:** 3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine

2,4(1*H*,3*H*)-dione

Hexazinone Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Colourless crystals
Nominal concentration	98.7%
Odour	Odourless
Specific gravity	1.25
Vapour pressure	0.03 mPa (25 °C) 8.5 mPa (86 °C)
pH	7.5 (in 1% water)
Solubility in water	29.8 g/L ( <u>pH</u> 7)
n-Octanol/water partition coefficient	$LogK_{ow} = 1.2 \ (\underline{pH} \ 7)$



<sup>\*</sup> International Union of Pure and Applied Chemistry

<sup>†</sup> Chemical Abstracts Service

The chemistry requirements for Hexazinone Technical Herbicide have been fulfilled.

# **Health Assessments**

The new source Hexazinone Technical Herbicide is considered toxicologically equivalent to its predecessor. No toxicology data were required or reviewed.

No occupational exposure and food residue assessments were required for this application.

#### **Environmental Assessment**

The minute amounts of impurities in the new source of TGAI are not expected to be of environmental concern.

# **Value Assessment**

A value assessment was not required for this application.

# Conclusion

The PMRA has completed an assessment of the information provided and is able to support the registration of Hexazinone Technical Herbicide.

# References

2306616	2013, Applicant Name and Office Address and Manufacturers Name and Address,
	DACO: 2.1,2.2
2306617	2013, Technical Grade Hexazinone (DPX-A3674) Manufacturing Description and
	formulation of impurities - Confidential attachment, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
2306618	2013, Technical Grade Hexazinone (DPX-A3674) Manufacturing Description and
	formulation of impurities - Non- Confidential attachment, DACO: 2.11.1,2.11.2,2.11.3,2.11.4
2306620	2013, HEXAZINONE (DPX-A3674) IDENTITY, COMPOSITION, AND CERTIFIED
	LIMITS - Confidential, DACO: 2.12.1,2.13.2 CBI
2306621	2013, HEXAZINONE (DPX-A3674) IDENTITY, COMPOSITION, AND CERTIFIED
	LIMITS - Non-confidential, DACO: 2.12.1,2.13.2
2306622	2012, DESCRIPTION AND VALIDATION OF THE ANALYTICAL METHODS FOR
	DETERMINATION OF IMPURITIES IN TECHNICAL GRADE HEXAZINONE
	(DPX-A3674) - Confidential, DACO: 2.13.1 CBI
2306624	2012, DESCRIPTION AND VALIDATION OF THE ANALYTICAL METHODS FOR
	DETERMINATION OF IMPURITIES IN TECHNICAL GRADE HEXAZINONE
	(DPX-A3674) - Non-Confidential, DACO: 2.13.1
2306625	2012, BATCH ANALYSIS OF HEXAZINONE (DPX-A3674) TECHNICAL –
	Confidential, DACO: 2.13.3 CBI
2306628	2012, BATCH ANALYSIS OF HEXAZINONE (DPX-A3674) TECHNICAL –
	Non-confidential, DACO: 2.13.3
2446209	2014, Description and validation of the analytical methods for determination of impurities
	in tehcnical grade hexazinone (DPX-A3674), DACO: 2.13.1 CBI

2446212	2014, [CBI Removed] analysis in hexazinone (DPX_A3674) Technical Material, DACO: 2.13.4 CB
2446214	2014, risk assessment on levels of an impurity in hexazinone, DACO: 2.13.4 CBI
2461286	2014, determination of [CBI Removed] in batch analysis of hexazinone technical material,
	DACO: 2.13.4
2465408	2014, overlay -screen shot, DACO: 2.0
2465409	2014, hexazinone sample, DACO: 2.0
2465410	2014, [CBI Removed] standard - screen shot, DACO: 2.0
2465411	2014, [CBI Removed] standard - screen shot, DACO: 2.0
2465412	2011, method, DACO: 2.13.1 CBI

ISSN: 1911-8082

# 8 Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2014

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.