

Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

Application Number: 2014-5126

Application: Changes to TGAI Product Chemistry – New Source (site) same

registrant and Specifications

Product: Copper Flake Technical

Registration Number: 27903

Active ingredients (a.i.): Copper, metallic

PMRA Document Number: 2630479

Purpose of Application

The purpose of this application was to add a new manufacturing site to the technical product, Copper Flake Technical, and to amend the specifications.

Chemistry Assessment

Common Name: Copper (metallic)

IUPAC* Chemical Name: Copper CAS† Chemical Name: Copper

Copper Flake Technical has the following properties:

Property	Result	
Colour and physical state	Reddish-brown solid	
Nominal concentration	95.75%	
Odour	None	
Relative density	4	
Vapour pressure	Negligible	
рН	Not applicable; not soluble in water	
Solubility in water	Negligible	
n-Octanol/water partition coefficient	Not applicable; solid metal	

The required chemistry data for Copper Flake Technical have been provided, reviewed, and



^{*} International Union of Pure and Applied Chemistry

[†] Chemical Abstracts Service

found to be acceptable.

Health Assessments

Occupational and dietary exposure assessments were not required for this application.

Since the technical grade active ingredient (TGAI) is to formulate antifouling paints, the precautionary measures required when handling the TGAI are sufficient to protect from users.

The exposure mitigation measures present on the label, such as signal words, pictogram, precautionary statements and personal protective equipment requirements are adequate to address any toxicological concerns. These mitigation measures are also required for any end-use product formulated with this active ingredient for use as antifouling paints.

There is no concern for dietary exposure as the active ingredient is for non-food use (to formulate antifouling paints).

Environmental Assessment

The addition of the new manufacturing site for Copper Flake Technical is not expected to increase environmental risk.

Value Assessment

A value assessment was not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the addition of a new manufacturing site and changes to the specifications of Copper Flake Technical.

References

PMRA	References					
Document						
Number						
2470849	2014, Chemistry-2.1-9,2.11, 2.13, 2.14-Eckart Copper, DACO:					
2.1,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.13.4,2.2,2						
	2.5,2.6,2.7,2.8,2.9 CBI					
2470850	2012, Chemistry-2.11.3-Manufacturing of Copper Flake Technical_V2, DAG					
	2.11.3 CBI					
2470851	2012, Determination of Total Copper and [CBI REMOVED] in Five Batches of Coated Copper Flakes, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI					
2470852	2014, final 20121030_5_Batch_2011_Formatierung_Windows 7_rev2_non EU-					
	revised, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI					
2491384	2012, Determination of Total Copper and [CBI REMOVED] in Five Batches of					

	Coated Cop	per Flakes - Final l	Report, DACO: 2.13.1,2.1	3.2,2.13.3,2.13.4 CBI		
2592470	2015, [CBI REMOVED] analysis-copper-19nov2015-B022-15 copper atomized					
	Data incom	Data incoming goods, DACO: 2.13.4 CBI				
2592471	2015,	[CBI	REMOVED]	-09dec2015-B022a-		
	15_Kupfergriess_100_Data_incoming_goods, DACO: 2.13.4 CBI					
2592472	2015, [CBI	REMOVED] -add	MOVED] -additional-19nov2015, DACO: 2.13.4 CBI			

A. Additional Information Considered

i) Published Information

2.0 Human and Animal Health

2013,

http://www.ich.org/fileadmin/Public Web Site/ICH Products/Guidelines/Quality/Q3D/Q3D St ep2b.pdf (International Conference on Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use, Guideline for Elemental Impurities, Q3D).

ISSN: 1911-8082

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