



## Justification Document for the Selection of a CoRAP Substance

<b>Substance Name (public name):</b>	<b>bis(dibutyldithiocarbamate-S, S') copper</b>
<b>EC Number:</b>	<b>237-695-7</b>
<b>CAS Number:</b>	<b>13927-71-4</b>
<b>Authority:</b>	<b>FR MSCA</b>
<b>Date:</b>	<b>22/03/2016</b>

### Note

This document has been prepared by the evaluating Member State(s) given in the CoRAP update.

## Table of Contents

1	IDENTITY OF THE SUBSTANCE	3
1.1	Other identifiers of the substance	3
1.2	Similar substances/grouping possibilities	3
2	OVERVIEW OF OTHER PROCESSES / EU LEGISLATION	4
3	HAZARD INFORMATION (INCLUDING CLASSIFICATION)	6
3.1	Classification	6
3.1.1	Harmonised Classification in Annex VI of the CLP	6
3.1.2	Self classification	6
3.1.3	Proposal for Harmonised Classification in Annex VI of the CLP	6
4	INFORMATION ON (AGGREGATED) TONNAGE AND USES	7
4.1	Tonnage and registration status	7
4.2	Overview of uses	7
5.	JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP SUBSTANCE	8
5.1.	Legal basis for the proposal	8
5.2.	Selection criteria met (why the substance qualifies for being in CoRAP)	8
5.3.	Initial grounds for concern to be clarified under Substance Evaluation	8
5.4.	Preliminary indication of information that may need to be requested to clarify the concern	10
5.5.	Potential follow-up and link to risk management	10

## 1 IDENTITY OF THE SUBSTANCE

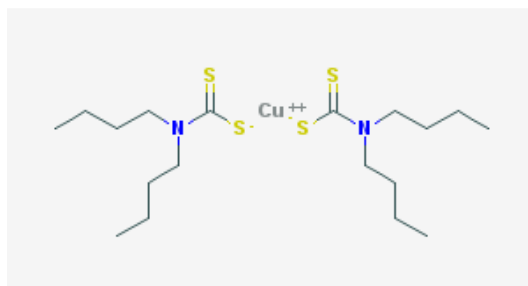
### 1.1 Other identifiers of the substance

**Table 1: Other Substance identifiers**

<b>EC name (public):</b>	bis(dibutyldithiocarbamato-S, S') copper
<b>IUPAC name (public):</b>	bis(dibutyldithiocarbamato-S,S')copper
<b>Index number in Annex VI of the CLP Regulation:</b>	Not applicable
<b>Molecular formula:</b>	C <sub>18</sub> H <sub>36</sub> CuN <sub>2</sub> S <sub>4</sub>
<b>Molecular weight or molecular weight range:</b>	472 g/mol
<b>Synonyms:</b>	CDBC

**Type of substance**     Mono-constituent     Multi-constituent     UVCB

**Structural formula:**



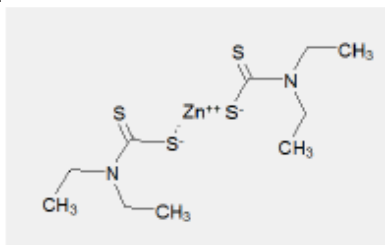
### 1.2 Similar substances/grouping possibilities

**Table 2: Similar substances**

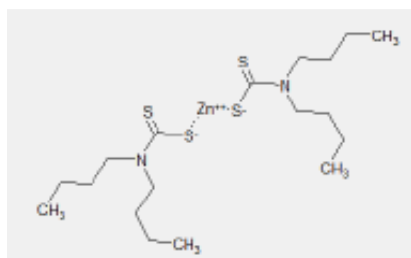
<b>Name</b>	<b>CAS No</b>	<b>EC No</b>	<b>Comments</b>
Zinc diethyldithiocarbamate; ZDEC	14324-55-1	238-270-9	Registered, Annex VI of CLP regulation
Zinc di-n-butylthiocarbamate; ZDBC	136-23-2	205-232-8	Registered, Annex VI of CLP regulation
Ziram	137-30-4	205-288-3	Registered, ongoing SEV by DK, Annex VI of CLP regulation, RMOA under development (Scope: ED) by DK, Approved in regulation (EU) no 540/2011

**Structural formula:**

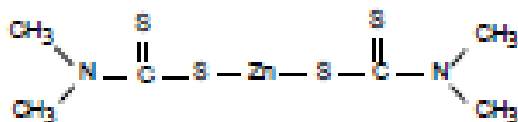
ZDEC:



ZDBC:



Ziram:



**2 OVERVIEW OF OTHER PROCESSES / EU LEGISLATION**

**Table: Completed or ongoing processes**

RMOA	<input type="checkbox"/> Risk Management Option Analysis (RMOA)	
REACH Processes	Evaluation	<input type="checkbox"/> Compliance check, Final decision
		<input checked="" type="checkbox"/> Testing proposal
		<input type="checkbox"/> CoRAP and Substance Evaluation
	Authorisation	<input type="checkbox"/> Candidate List
<input type="checkbox"/> Annex XIV		

JUSTIFICATION DOCUMENT FOR THE SELECTION OF A CORAP SUBSTANCE

	Restriction	<input type="checkbox"/> Annex XVII
Harmonised C&L		<input type="checkbox"/> Annex VI (CLP) (see section 3.1)
Processes under other EU legislation		<input type="checkbox"/> Plant Protection Products Regulation Regulation (EC) No 1107/2009
		<input type="checkbox"/> Biocidal Product Regulation Regulation (EU) 528/2012 and amendments
Previous legislation		<input type="checkbox"/> Dangerous substances Directive Directive 67/548/EEC (NONS)
		<input type="checkbox"/> Existing Substances Regulation Regulation 793/93/EEC (RAR/RRS)
(UNEP) Stockholm convention (POPs Protocol)		<input type="checkbox"/> Assessment
		<input type="checkbox"/> In relevant Annex
Other processes / EU legislation		<input type="checkbox"/> Other (provide further details below)

The registration data contains a decision on a testing proposal for CDBC (CAS 13927-71-4, decision number TPED-D-2114292058—44-01/F) "OECD Guideline 211 (Long-term aquatic toxicity study on Daphnia)", "OECD Guideline 225 (Sediment-Water Lumbricus Toxicity Test Using Spiked Sediment)", "OECD Guideline 222 (Long-term toxicity test on macroorganisms)". Further, a growth test with terrestrial plants (OECD 208) and a nitrogen transformation test (OECD 216) were requested. The deadline for submission of this information in 02/02/2017.

### **3 HAZARD INFORMATION (INCLUDING CLASSIFICATION)**

#### **3.1 Classification**

##### **3.1.1 Harmonised Classification in Annex VI of the CLP**

Not included in Annex VI of CLP Regulation (Regulation (EC) 1272/2008).

##### **3.1.2 Self classification**

- In the registration:  
Aquatic Chronic. 4, H413 - May cause long lasting harmful effects to aquatic life.
- The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:  
Skin Sens. 1, H317 – May cause an allergic skin reaction

##### **3.1.3 Proposal for Harmonised Classification in Annex VI of the CLP**

Not applicable

## 4 INFORMATION ON (AGGREGATED) TONNAGE AND USES

### 4.1 Tonnage and registration status

**Table 3: Tonnage and registration status**

<b>From ECHA dissemination site</b>		
<input checked="" type="checkbox"/> Full registration(s) (Art. 10)	<input type="checkbox"/> Intermediate registration(s) (Art. 17 and/or 18)	
Tonnage band (as per dissemination site)		
<input type="checkbox"/> 1 – 10 tpa	<input type="checkbox"/> 10 – 100 tpa	<input checked="" type="checkbox"/> 100 – 1000 tpa
<input type="checkbox"/> 1000 – 10,000 tpa	<input type="checkbox"/> 10,000 – 100,000 tpa	<input type="checkbox"/> 100,000 – 1,000,000 tpa
<input type="checkbox"/> 1,000,000 – 10,000,000 tpa	<input type="checkbox"/> 10,000,000 – 100,000,000 tpa	<input type="checkbox"/> > 100,000,000 tpa
<input type="checkbox"/> <1 . . . . . >+ tpa (e.g. 10+ ; 100+ ; 10,000+ tpa)		<input type="checkbox"/> Confidential
Joint Submission		

### 4.2 Overview of uses

**Table 4: Uses**

**Part 1:**

<input checked="" type="checkbox"/> Manufacture	<input type="checkbox"/> Formulation	<input checked="" type="checkbox"/> Industrial use	<input type="checkbox"/> Professional use	<input type="checkbox"/> Consumer use	<input type="checkbox"/> Article service life	<input type="checkbox"/> Closed system
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**Part 2:**

	Use(s)
<b>Uses as intermediate</b>	Production of acrylic acid and its derivatives
<b>Uses at industrial sites</b>	Production of acrylic acid and its derivatives

## 5. JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

### 5.1. Legal basis for the proposal

- Article 44(2) (refined prioritisation criteria for substance evaluation)  
 Article 45(5) (Member State priority)

### 5.2. Selection criteria met (why the substance qualifies for being in CoRAP)

- Fulfils criteria as CMR/ Suspected CMR  
 Fulfils criteria as Sensitiser/ Suspected sensitiser  
 Fulfils criteria as potential endocrine disrupter  
 Fulfils criteria as PBT/vPvB / Suspected PBT/vPvB  
 Fulfils criteria high (aggregated) tonnage (*tpa* > 1000)  
 Fulfils exposure criteria  
 Fulfils MS's (national) priorities

### 5.3. Initial grounds for concern to be clarified under Substance Evaluation

Hazard based concerns		
CMR <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R	Suspected CMR <sup>1</sup> <input type="checkbox"/> C <input type="checkbox"/> M <input checked="" type="checkbox"/> R	<input checked="" type="checkbox"/> Potential endocrine disruptor
<input type="checkbox"/> Sensitiser	<input type="checkbox"/> Suspected Sensitiser <sup>1</sup>	
<input type="checkbox"/> PBT/vPvB	<input checked="" type="checkbox"/> Suspected PBT/vPvB <sup>1</sup>	<input type="checkbox"/> Other (please specify below)
Exposure/risk based concerns		
<input type="checkbox"/> Wide dispersive use	<input type="checkbox"/> Consumer use	<input type="checkbox"/> Exposure of sensitive populations
<input type="checkbox"/> Exposure of environment	<input checked="" type="checkbox"/> Exposure of workers	<input type="checkbox"/> Cumulative exposure
<input type="checkbox"/> High RCR	<input type="checkbox"/> High (aggregated) tonnage	<input type="checkbox"/> Other (please specify below)

<sup>1</sup> CMR/Sensitiser: known carcinogenic and/or mutagenic and/or reprotoxic properties/known sensitising properties (according to CLP harmonized or registrant self-classification or CLP Inventory)

Suspected CMR/Suspected sensitiser: suspected carcinogenic and/or mutagenic and/or reprotoxic properties/suspected sensitising properties (not classified according to CLP harmonized or registrant self-classification)

Suspected PBT: Potentially Persistent, Bioaccumulative and Toxic



### **Suspected reproductive toxicity**

With regard to the reproductive toxicity endpoint, a developmental toxicity screening test has been conducted according to OECD test guideline 421. In this study, decreased survival (PND 0-4) has been observed.

No further reproductive or developmental toxicity tests have been performed. A read-across with ZDEC has been proposed for developmental toxicity (published data in Japanese, only abstract available). The developmental and reproductive effects observed with other dithiocarbamate (e.g. Thiram) raise concern that the substance is a reproductive/developmental toxicant, which need to be clarified.

### **Potential endocrine disruptor**

Ziram is currently under RMOA and hazard evaluation for ED properties. For ZDEC and ZDBC a read-across with Ziram is proposed for the reproductive endpoint in the ECHA disseminated website. Moreover, qHTS<sup>2</sup> on ZDBC give positive results for Thyroid hormone receptor and ER receptor. For CDBC, a read-across with ZDEC and ZDEC has been proposed by the registrant for some endpoints (e.g short-term toxicity). Therefore, the endocrine disruptor potential of CDBC need to be clarified.

### **Suspected PBT/vPvB**

Regarding persistence, CDBC is considered as non readily biodegradable (OECD 301F). Aquatic bioaccumulation of CDBC was estimated by QSAR and no data are available in terrestrial compartment. As only data on algae are available for ecotoxicity of CDBC, data on aquatic, sediment and terrestrial toxicity are lacking. Following dossier evaluation of CDBC, a testing proposal (TPE-D-2114292058-44-01/F) on ecotoxicity of CDBC is currently in progress (decision date 26/01/15) concerning Long-term aquatic toxicity study on Daphnia (OECD 211), Sediment-Water Lumbricus Toxicity Test using Spiked Sediment (OECD 225), Long term toxicity test on macroorganisms (OECD 222), Terrestrial plants, growth test (OECD 208) and Effects on soil micro-organisms (OECD 216).

The registrant shall submit to ECHA by 2 February 2017 an update of registration dossier containing the information required by the testing proposal and an update of the Chemical Safety Report. This data will clarify the T criteria. Then, during substance evaluation, supplemental informations on behaviour of CDBC (abiotic degradation) and bioaccumulation will be needed.

No risk assessment has been performed in the registration dossier, but it is indicated that due to its properties the substance should not be release in the environment. The hazards for both human health and environment and the risk assessment have to be assessed for this substance.

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<sup>2</sup> Quantitative High Throughput Screening

**5.4. Preliminary indication of information that may need to be requested to clarify the concern**

<input checked="" type="checkbox"/> Information on toxicological properties	<input type="checkbox"/> Information on physico-chemical properties
<input checked="" type="checkbox"/> Information on fate and behaviour	<input type="checkbox"/> Information on exposure
<input type="checkbox"/> Information on ecotoxicological properties	<input type="checkbox"/> Information on uses
<input checked="" type="checkbox"/> Information ED potential	<input type="checkbox"/> Other (provide further details below)
<p>During the substance evaluation it should be verified if the proposed read-across with ZDEC, ZDBC and ziram are relevant. Furthermore, the reproductive/developmental toxicity and ED concerns of CDBC should be clarified.</p> <p>Regarding Environmental Hazard, persistence (especially abiotic degradation), bioaccumulation and ecotoxicity data of CDBC are lacking and they should be clarified by further analyses.</p> <p>As a testing proposal on ecotoxicity of CDBC is currently in progress and the data are needed for substance evaluation, evaluation should be performed not sooner than 2018.</p> <p>Moreover, at this time, the ongoing assessment on Thiram will be more mature, enabling proper read-across.</p>	

**5.5. Potential follow-up and link to risk management**

<input type="checkbox"/> Harmonised C&L	<input type="checkbox"/> Restriction	<input type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
<p>Potential follow-up actions for the substance depend on the outcome of this substance evaluation. RMOA for PBT/vPvB and ED properties or harmonized C&amp;L for reproductive/developmental toxicity concerns may be considered.</p>			