



Justification Document for the Selection of a CoRAP Substance

– Update –

Substance Name (public name):	Disodium 4,4'-bis[(4,6-dianilino-1,3,5-triazin-2-yl)amino]stilbene-2,2'-disulphonate
EC Number:	205-117-2
CAS Number:	133-66-4
Authority:	Italian CA
Date:	21/03/2017 20/03/2018 (1. Update)

Cover Note

This document has been prepared by the evaluating Member State 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	4
2	OVERVIEW OF OTHER PROCESSES / EU LEGISLATION	4
3	HAZARD INFORMATION (INCLUDING CLASSIFICATION)	5
3.1	Classification	5
3.1.1	Harmonised Classification in Annex VI of the CLP	5
3.1.2	Self classification	5
3.1.3	Proposal for Harmonised Classification in Annex VI of the CLP	5
4	INFORMATION ON (AGGREGATED) TONNAGE AND USES	6
4.1	Tonnage and registration status	6
4.2	Overview of uses	6
5	JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP SUBSTANCE	8
5.1.	Legal basis for the proposal	8
5.2.	Selection criteria met	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: Other Substance identifiers

EC name (public):	Disodium 4,4'-bis[(4,6-dianilino-1,3,5-triazin-2-yl)amino]stilbene-2,2'-disulphonate
IUPAC name (public):	disodium 2,2'-ethene-1,2-diylbis{5-[(4,6-dianilino-1,3,5-triazin-2-yl)amino]benzenesulfonate}
Index number in Annex VI of the CLP Regulation:	/
Molecular formula:	C ₃₈ H ₃₆ N ₁₄ O ₈ S ₂ Na ₂
Molecular weight or molecular weight range:	926.9
Synonyms:	<i>Fluorescent Brightener 9</i>

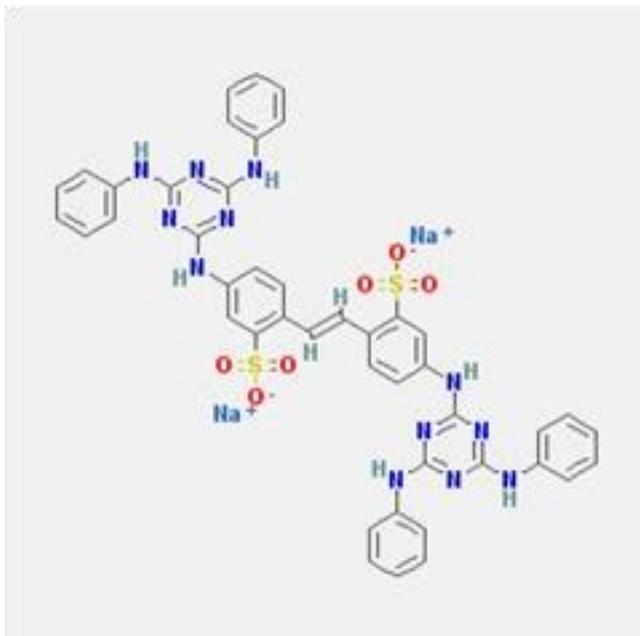
Type of substance

Mono-constituent

Multi-constituent

UVCB

Structural formula:



1.2 Similar substances/grouping possibilities

Has read-across been used by the registrant for the concern related endpoints?

Yes No

Is the substance a member of a category?

Yes No

The registrant identified the registered substance as “belonging to the family of stilbene fluorescent whitening agents” (SFWA) and also provided four analogue substances (CAS RN 16090-02-1, 13863-31-5, 4404-43-7, 16470-24-9) belonging to the same category to fill the data gaps of the target substance. However, the information on the SFWA and the justification provided in the submitted document is not sufficient to conclude if the target substance can be included within the category and for establishing a clear basis for the analogue approach justification.

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 type="checkbox"/> Testing proposal, Final decision
		<input type="checkbox"/> CoRAP and Substance Evaluation
	Authorisation	<input type="checkbox"/> Candidate List
		<input type="checkbox"/> Annex XIV
	Restriction	<input type="checkbox"/> Annex XVII ¹
Harmonised C&L	<input type="checkbox"/> Annex VI (CLP) (see section 3.1)	
Processes under other	<input type="checkbox"/> Plant Protection Products Regulation Regulation (EC) No 1107/2009	

¹ Please specify the relevant entry.

	<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)

3 HAZARD INFORMATION (INCLUDING CLASSIFICATION)

3.1 Classification

3.1.1 Harmonised Classification in Annex VI of the CLP

The Harmonised Classification is not available.

3.1.2 Self classification

- In the registration:
Not Classified
- The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:
Aquatic Chronic 3 H412
Eye Irrit. 2 H319
Skin Irrit. 2 H315

3.1.3 Proposal for Harmonised Classification in Annex VI of the CLP

None.

4 INFORMATION ON (AGGREGATED) TONNAGE AND USES²

4.1 Tonnage and registration status

Table: Tonnage and registration status

From ECHA dissemination site		
<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 checked="" type="checkbox"/> 10 - 100 tpa	<input 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
This substance has 1 active registration under REACH, 1 Joint Submission.		

4.2 Overview of uses

This substance is used in the following products: washing & cleaning products and textile treatment products and dyes.

This substance is used for the manufacture of: textile, leather or fur.

Release to the environment of this substance is likely to occur from industrial use: formulation of mixtures and in the production of articles. Other release to the environment of this substance is likely to occur from: indoor use (e.g. machine wash liquids/detergents, automotive care products, paints and coating or adhesives, fragrances and air fresheners), outdoor use in long-life materials with low release rate (e.g. metal, wooden and plastic construction and building materials) and indoor use in long-life materials with low release rate (e.g. flooring, furniture, toys, construction materials, curtains, foot-wear, leather products, paper and cardboard products, electronic equipment).

This substance can be found in products with material based on: fabrics, textiles and apparel (e.g. clothing, mattress, curtains or carpets, textile toys).

² The dissemination site was accessed in August 2017.

Table: Uses

Part 1:

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

	Use(s)
Uses as intermediate	
Formulation	Formulation of Preparations and/or Settings Manufacture of Cleaning and Maintenance Products
Uses at industrial sites	Textile Finishing
Uses by professional workers	Institutional and industrial uses of cleaning and maintenance products (ERC 8a: Wide dispersive indoor use of processing aids in open systems; ERC 8b: Wide dispersive indoor use of reactive substances in open systems)
Consumer Uses	Consumer uses of cleaning and maintenance products (ERC 8a; ERC 8b) Service life stage of textile products (ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release; ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release)
Article service life	Service life stage of textile products (ERC 10a; ERC 11a)

Part 3: There is high potential for exposure of

<input checked="" type="checkbox"/> Humans	<input checked="" type="checkbox"/> Environment
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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

- 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 ¹ <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R	<input type="checkbox"/> Potential endocrine disruptor
<input type="checkbox"/> Sensitiser	<input type="checkbox"/> Suspected Sensitiser ³	
<input type="checkbox"/> PBT/vPvB	<input checked="" type="checkbox"/> Suspected PBT/vPvB ¹	<input type="checkbox"/> Other (please specify below)
Exposure/risk based concerns		
<input checked="" type="checkbox"/> Wide dispersive use	<input type="checkbox"/> Consumer use	<input type="checkbox"/> Exposure of sensitive populations
<input type="checkbox"/> Exposure of environment	<input 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)
<u>PBT assessment</u> <u>Persistence assessment</u>		

³ 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

The Registrants considered the substance to be persistent in the environment.

The following studies on ready biodegradability were reported: 1) episuite BIOWIN, resulting as not readily biodegradable; 2) OECD 301A (old version) based on a read-across with a structural analogue substance (CAS n° 16470-24-9), the degradation was 1.2% after 28 d (DOC removal). The substance was concluded by the Registrants to be not readily biodegradable.

The Registrants waived the simulation tests (water and sediment, soil), on the basis that the test substance would not be biodegradable in simulation tests either.

In conclusion, the substance is likely to be not readily biodegradable on the basis of the QSAR prediction, although its reliability is low, additionally the R-A justification is not acceptable, therefore the substance is potentially P or vP.

Bioaccumulation assessment

The Registrants submitted two different aquatic bioaccumulation studies: 1) QSAR estimation, the BCF value is = 10 L/Kg, however there is a lack of QSAR documentation; 2) experimental study carried on with an analogue substance (CAS n° 16090-02-1), that showed that tissue concentrations of the tested substance were too low to be quantified, however there is not adequate justification document for read-across. The substance was concluded by the Registrants to be not bioaccumulative.

The reliability of the QSAR prediction is low and the R-A justification is not acceptable, therefore no information is provided on bioaccumulation in aquatic organisms, moreover, based on the physicochemical property of the substance (Log Kow > 8, Log Koc > 5), a potential for terrestrial bioaccumulation cannot be excluded.

The substance fulfills the screening criterion of Log Kow greater than 4.5 (predicted Log Kow = 8.96), therefore bioaccumulation testing is needed.

In conclusion, the substance is potentially B or vB.

Toxicity assessment

The acute aquatic toxicity data were provided by the Registrants for all the three taxonomic groups, carried out with a structural analogue substance (CAS n° 16090-02-1). The results of the short-term tests didn't reveal any toxicity. Moreover, the Registrants provided only one long-term aquatic toxicity test based on a read-across with a structural analogue substance (CAS n° 16090-02-1) on Daphnia, which revealed a NOEC=1 mg/L.

The R-A justification is not acceptable, therefore there is a gap of information on the aquatic acute toxicity of the substance, as well as on the chronic toxicity.

Therefore, based on the information provided, is not possible to assess the real hazard of the substance to the aquatic organisms.

Exposure assessment

Taking into account that no hazard was identified, the exposure estimation is considered not necessary by the Registrants and is not reported in the registration dossiers. Consequently, all identified uses of the substance are assessed by the Registrants as safe for human health and the environment.

In section 3.7.3 of IUCLID, among the significant routes of exposure for environment, water and soil are checked by the Registrants, nevertheless potential releases are not reported. The substance has a wide dispersive use, therefore a potential for exposure/release due to the uses of the substance is expected. In particular, the reported use ERC 8a: Wide dispersive indoor use of processing aids in open systems - indicates indirect exposure to soil is likely (the substance is used in textile and laundry detergents).

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

<input type="checkbox"/> Information on toxicological properties	<input type="checkbox"/> Information on physico-chemical properties
<input checked="" type="checkbox"/> Information on fate and behaviour	<input checked="" type="checkbox"/> Information on exposure
<input checked="" type="checkbox"/> Information on ecotoxicological properties	<input type="checkbox"/> Information on uses
<input type="checkbox"/> Information on ED potential	<input type="checkbox"/> Other (provide further details below)

Based on the analysis of available data it can be concluded that both standard and non-standard information are needed to verify the initial concern as suspected PBT. These are specified below.

Only screening information are available for P assessment, that provide a conclusion as potentially P or vP, therefore the simulation tests (water and/or sediment/soil) are needed. Considering the physico-chemical properties of the substance (WS 140 mg/L, Log Kow > 8 and Log Koc > 5), both simulation testing in surface waters (OECD 309) and sediments (OECD 308) are proposed.

The substance is potentially B or vB, therefore a bioaccumulation test in fish (OECD TG 305) is needed as confirmatory data.

No reliable information is available on aquatic toxicity of the substance, therefore standard information requirements are needed. Moreover, based on the physico-chemical property of the substance (Log Kow > 8, Log Koc > 5) long-term tests with sediment dwelling species and/or terrestrial organisms may provide more useful information on the toxicity of the substance. However, depending on the outputs of the P and B assessment, the T criterion can then be considered.

Based on a wide dispersive use of the substance and on the potential for PBT properties, an exposure assessment is needed.

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 checked="" type="checkbox"/> Other (provide further details)
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The potential regulatory outcome, following the clarification of the concern, could be to carry out an Annex XV for SVHC identification.