

## Justification for the selection of a candidate CoRAP substance

<b>Substance Name (Public Name):</b>	Benzothiazole-2-thiol
<b>Chemical Group:</b>	-
<b>EC Number:</b>	205-736-8
<b>CAS Number:</b>	149-30-4
<b>Submitted by:</b>	Germany
<b>Published:</b>	20/03/2013

### NOTE

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

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## 1 IDENTITY OF THE SUBSTANCE

### 1.1 Name and other identifiers of the substance

Table 1: Substance identity

<b>Public Name:</b>	Benzothiazole-2-thiol
<b>EC number:</b>	205-736-8
<b>EC name:</b>	Benzothiazole-2-thiol
<b>CAS number (in the EC inventory):</b>	149-30-4
<b>CAS number:</b>	149-30-4
<b>CAS name:</b>	Benzothiazole-2-thiol
<b>IUPAC name:</b>	1,3-benzothiazole-2-thiol
<b>Index number in Annex VI of the CLP Regulation</b>	613-108-00-3
<b>Molecular formula:</b>	C <sub>7</sub> H <sub>5</sub> NS <sub>2</sub>
<b>Molecular weight or molecular weight range:</b>	167.26 g/mol
<b>Synonyms:</b>	1,3-benzothiazole-2-thiol 2-Mercaptobenzothiazol 2(3H)-benzothiazolethione MBT

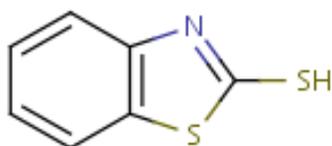
**Type of substance**

Mono-constituent

Multi-constituent

UVCB

**Structural formula:**



## 2 CLASSIFICATION AND LABELLING

### 2.1 Harmonised Classification in Annex VI of the CLP

CLP:

Skin Sens. 1                      H317: May cause an allergic skin reaction.  
Aquatic Acute 1                  H400: Very toxic to aquatic life.  
Aquatic Chronic 1                H410: Very toxic to aquatic life with long lasting effects.

DSD:

R43 May cause sensitisation by skin contact.

N; R50/53 Dangerous for the environment; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 2.2 Proposal for Harmonised Classification in Annex VI of the CLP

None

### 2.3 Self classification

Classification by the lead registrant is consistent with the entry in Annex VI (CLP), except that H400 is not included.

Classification and labelling inventory additionally includes the following classification given by three notifiers:

Carc. 1B; H350: May cause cancer.

## 3 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

### 3.1 Legal basis for the proposal

- Article 44(1) (refined prioritisation criteria for substance evaluation)  
 Article 45(5) (Member State priority)

### 3.2 Grounds for concern

<input checked="" type="checkbox"/> (Suspected) CMR	<input checked="" type="checkbox"/> Wide dispersive use	<input type="checkbox"/> Cumulative exposure
<input checked="" type="checkbox"/> (Suspected) Sensitiser	<input checked="" type="checkbox"/> Consumer use	<input type="checkbox"/> High RCR
<input type="checkbox"/> (Suspected) PBT	<input checked="" type="checkbox"/> Exposure of sensitive populations	<input checked="" type="checkbox"/> Aggregated tonnage
<input type="checkbox"/> Suspected endocrine disruptor	<input type="checkbox"/> Other (provide further details below)	

2-MBT is used as an accelerator for the vulcanisation of rubber. The substance is self-classified by some notifiers as Carc. 1B. In Germany the expert committee for occupational exposure values has identified the substances as possible carcinogen. The substance evaluation is intended to clarify whether the available data justify a harmonised classification regarding carcinogenicity and/or genotoxicity.

On the basis of test results on the release of 2-MBT from consumer products (air mattresses) and the maximum possible dermal uptake of the substance, in an evaluation by the Federal Institute for Risk Assessment (BfR) it was concluded that the emission of 2-MBT from consumer products should be minimised as far as possible. The analysis of migration rates of 2-MBT from air mattresses under realistic conditions revealed that the safety margin between the possible dermal up-take (under worst-case exposure assumptions) and the NOAEL may be below 100 so that a preventive consumer protection is considered necessary. The substance evaluation is intended to clarify whether risks from this use and possible other uses of the 2-MBT in consumer products are adequately addressed in the registration dossiers.

### 3.3 Information on aggregated tonnage and uses

<input type="checkbox"/> 1 – 10 tpa	<input type="checkbox"/> 10 – 100 tpa	<input type="checkbox"/> 100 – 1000 tpa	
<input type="checkbox"/> 1000 – 10,000 tpa	<input checked="" type="checkbox"/> 1000 + tpa	<input type="checkbox"/> 10,000 – 100,000 tpa	
<input type="checkbox"/> 100,000 – 1000,000 tpa	<input type="checkbox"/> > 1000,000 tpa		
<input checked="" type="checkbox"/> Confidential			
Confidentiality claim for some tonnage.			
<input type="checkbox"/> Industrial use	<input type="checkbox"/> Professional use	<input checked="" type="checkbox"/> Consumer use	<input type="checkbox"/> Closed System

The following consumer uses are mentioned in the list on ECHA's Website:  
 Use of tyres and general rubber goods  
 Environmental release category  
 ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release  
 ERC 10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)  
 ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release  
 Subsequent service life relevant for that use? yes  
 Article category related to subsequent service life  
**AC 1: Vehicles**  
**AC 2: Machinery, mechanical appliances, electrical/electronic articles**  
**AC 3: Electrical batteries and accumulators**  
**AC 10: Rubber articles**

Also industrial and professional uses are indicated there.

### 3.4 Other completed/ongoing regulatory processes that may affect suitability for substance evaluation

<input type="checkbox"/> Compliance check	<input type="checkbox"/> Dangerous substances Directive 67/548/EEC
<input type="checkbox"/> Testing proposal	<input type="checkbox"/> Existing Substances Regulation 793/93/EEC
<input checked="" type="checkbox"/> Annex VI (CLP)	<input type="checkbox"/> Plant Protection Products Regulation 91/414/EEC
<input type="checkbox"/> Annex XV (SVHC)	<input checked="" type="checkbox"/> Biocidal Products Directive 98/8/EEC
<input type="checkbox"/> Annex XIV (Authorisation)	<input type="checkbox"/> Other (provide further details below)
<input type="checkbox"/> Annex XVII (Restriction)	
<p>2-MBT has an entry in Annex VI in the Regulation (EC) No 1272/2008 (see above).</p> <p>It was recommended for non-inclusion in Annexes I, IA or IB to Directive 98/8/EC (Biocides) according to Commission Decision 2008/681/EC as stated in the ESIS entry for 2-MBT.</p>	

### 3.5 Information to be requested to clarify the suspected risk

<input checked="" type="checkbox"/> Information on toxicological properties	<input type="checkbox"/> Information on physico-chemical properties
<input 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 type="checkbox"/> Other (provide further details below)	

### 3.6 Potential follow-up and link to risk management

<input type="checkbox"/> Restriction	<input checked="" type="checkbox"/> Harmonised C&L	<input type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
<p>The substance evaluation is intended to clarify whether the available data or data requested justify a harmonised classification regarding carcinogenicity and/or genotoxicity.</p>			