Justification for the selection of a candidate CoRAP substance

Substance Name (Public Name): Buta-1,3-diene

Chemical Group:

EC Number: 203-450-8

CAS Number: 106-99-0

Submitted by: Germany

Published: 20/03/2013

NOTE

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

Contents

1		NTITY OF THE SUBSTANCE Name and other identifiers of the substance	3
2	2.1 2.2	SSIFICATION AND LABELLING Harmonised Classification in Annex VI of the CLP Proposal for Harmonised Classification in Annex VI of the CLP Self classification	4 4 4
3	3.1 3.2 3.3 3.4	TIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP SUBSTANCE Legal basis for the proposal Grounds for concern Information on aggregated tonnage and uses Other completed/ongoing regulatory processes that may affect suitability for substance evaluation	5 5 5 6
		Information to be requested to clarify the suspected risk	6
	3.6	Potential follow-up and link to risk management	6

1 IDENTITY OF THE SUBSTANCE

1.1 Name and other identifiers of the substance

Table 1: Substance identity

<u></u>	
Public Name:	Buta-1,3-diene
EC number:	203-450-8
EC name:	Buta-1,3-diene
CAS number (in the EC inventory):	106-99-0
CAS number:	106-99-0
CAS name:	1,3-Butadiene
IUPAC name:	Buta-1,3-diene
Index number in Annex VI of the CLP Regulation	601-013-00-X
Molecular formula:	C4H6
Molecular weight or molecular weight range:	≥54.0904
Synonyms:	Divinyl, Biethylene

Type of substance		☐ Multi-constituent	UVCB
-------------------	--	---------------------	------

Structural formula:



2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

Index number: 601-013-00-X							
Classification Hazard Class Hazard and Statement Category Code(s) Code(s)		Labelling					
		Pictogram Signal Word Code(s)	Pictogram Signal Word Code(s)	Suppl. Hazard statement code(s)			
Flam. Gas 1 Muta. 1B Carc. 1A	H220 H340 H350	GHS02 GHS08 GHS04 Dgr	H220 H340 H350				

Index number: : 601-013-00-X						
Classification	Risk phrases	Safety phrases	Indication(s) of danger			
F+; R12 Carc. Cat. 1; R45	12 45	45 53	F+ T			
Muta. Cat. 2; R46 46						

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 harmonised classification and additionally includes Liquefied gas (H280).

3 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP SURSTANCE

SUBSTANCE			

3.1 Legal basis for the proposal

$oxed{\boxtimes}$ Article 44(1) (refined prioritisation criteria for substance evaluation)							
☐ Article 45(5) (☐ Article 45(5) (Member State priority)						
3.2 Grounds for o	conceri	า					
☐ (Suspected) CMR ☐ Wide dispersive use ☐ Cumulative exposure							
☐ (Suspected) Sensitiser		☐ Consumer use	e		☐ High RCR		
☐ (Suspected) PBT		☐ Exposure of s	ensitive population	ıs	☐ Aggregated tonnage		
☐ Suspected endocrine di	sruptor	$oxed{\boxtimes}$ Other (provid	e further details be	elow)			
The substance is classif	ied as Ca	rcinogen 1A and	d Mutagen 1B.				
Therefore it may qualify	for iden	tification as SVH	HC under Art 57(a	a and b).		
Although the overwhelming use of butadiene is in closed systems with little risk of exposure, there are some uses mentioned in the registration dossier that indicate that there are also uses in (partly) open systems, or exposure may happen during interruption of processes. The details of these uses and the potential exposure risk need to be clarified in order to decide which risk management is appropriate.							
3.3 Information on aggregated tonnage and uses							
☐ 1 - 10 tpa		☐ 10 - 100 tpa		☐ 100 - 1000 tpa			
☐ 1000 - 10,000 tpa		☐ 10,000 - 100,000 tpa					
☐ 100,000 - 1000,000 tpa ☐ > 1000,000 tpa							
☐ Confidential							
Please provide further details							
In the ECHA dissemination web site, two registrations presented with the following tonnage bands;							
(1,000,000 - 10,000,000) + (10,000 - 100,000) tonnes per annum.							
☐ Industrial use	⊠ Profe	ssional use		!	☐ Closed System		

JUSTIFICATION DOCUMENT FOR THE SELECTION OF A CORAP SUBSTANCE

The following uses can be identified:							
Uses by workers in industrial settings: Manufacture, Distribution, Use as an Intermediate, Formulation, Use as a fuel, rubber production and processing, polymer production, polymer processing, use in laboratories, acrylonitrile – butadiene, styrene polymer for plastic industry, Use of Buta-1,3-diene in polymer production and processing, use in production of rocket motors Uses by professional workers: Polymer processing, process regulator, monomer in polymer Uses by consumer: Monomer in Polymer							
3.4 Other completed/ongoing regulatory processes that may affect suitability for substance evaluation							
☐ Compliance check			☐ Dangerous su	bstances Directive 67/548/EEC			
☐ Testing proposal			☐ Existing Subs	tances Regulation 793/93/EEC			
☐ Annex VI (CLP)			☐ Plant Protection	on Products Regulation 91/414/EEC			
☐ Annex XV (SVHC)			☐ Biocidal Produ	ucts Directive 98/8/EEC			
☐ Annex XIV (Authoris	sation)		☐ Other (provide further details below)				
☐ Annex XVII (Restrict	tion)						
Please provide further of	details						
3.5 Information to be requested to clarify the suspected risk							
☐ Information on toxic				n physico-chemical properties			
☐ Information on fate			☐ Information on exposure				
☐ Information on ecotoxicological properties ☐ Information on uses							
Other (provide furth	er details below)						
Some uses indicate a potential for exposure (PROCs). Exposure scenarios to these uses need to be evaluated for the quality of data and plausibility. This should be compared with available DMEL/DNEL and exposure risk relationships (from DE). Present data indicate that the DMELs that are calculated may give rise to exposure well above the 4:1000 risk ratio.							
3.6 Potential follow-up and link to risk management							
☐ Restriction ☐ Harmonised C&L ☐ Auth			thorisation	☐ Other (provide further details)			
If analysis of the exposure scenarios would indicate that there are cases where exposure to butadiene would give rise to concern, either an Annex XV dossier to identify butadiene as SVHC, with subsequent listing in Annex XIV, or a proposal for restriction of this compound in selected uses may be started.							