

## Justification for the selection of a candidate CoRAP substance

<b>Substance Name (Public Name):</b>	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanatodiphenylmethane, [(methylethylene) bis(oxy)]dipropanol and propane-1,2-diol
<b>Chemical Group:</b>	
<b>EC Number:</b>	500-312-1
<b>CAS Number:</b>	123714-19-2
<b>Submitted by:</b>	Health Board, Estonia
<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

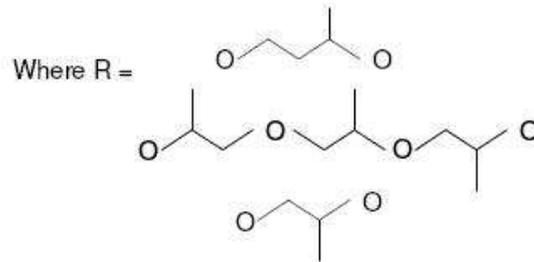
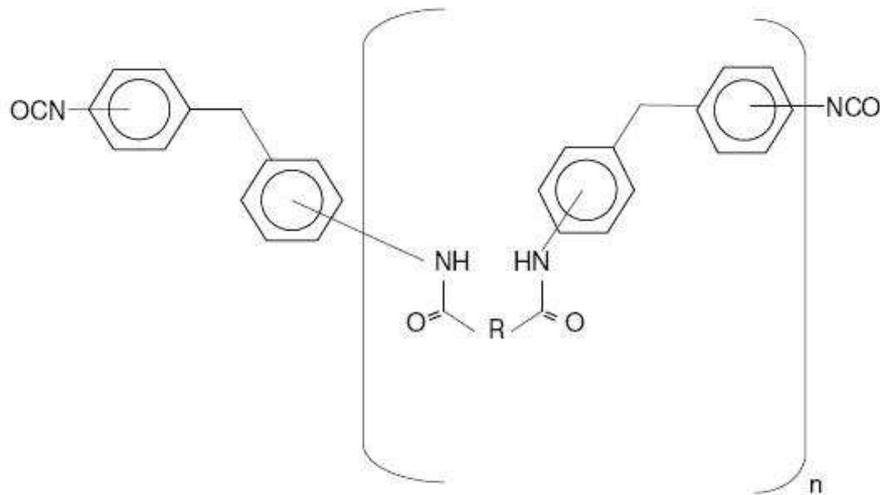
### 1.1 Name and other identifiers of the substance

**Table 1: Substance identity**

<b>Public Name:</b>	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanatodiphenylmethane, [(methylethylene)bis(oxy)]dipropanol and propane-1,2-diol
<b>EC number:</b>	500-312-1
<b>EC name:</b>	4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanatodiphenylmethane, [(methylethylene)bis(oxy)]dipropanol and propane-1,2-diol
<b>CAS number (in the EC inventory):</b>	123714-19-2
<b>CAS number:</b>	123714-19-2
<b>CAS name:</b>	1,3-Butanediol, polymer with 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene, 1,1'-methylenebis[4-isocyanatobenzene], [(1-methyl-1,2-ethanediyl)bis(oxy)]bis[propanol] and 1,2-propanediol
<b>IUPAC name:</b>	
<b>Index number in Annex VI of the CLP Regulation</b>	
<b>Molecular formula:</b>	C <sub>14</sub> H <sub>10</sub> N O ( R C <sub>15</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> ) <sub>n</sub> NCO where R = C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> and C <sub>9</sub> H <sub>18</sub> O <sub>4</sub> and C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>
<b>Molecular weight or molecular weight range:</b>	ca. 365.0
<b>Synonyms:</b>	

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

**Structural formula:**



## 2 CLASSIFICATION AND LABELLING

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

N/A

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

N/A

## 2.3 Self classification

The registration data includes the following self-classification:

According to CLP criteria:

- Acute Tox. 4; H332: Harmful if inhaled.
- Skin Irrit. 2; H315: Causes skin irritation, C ≥ 5%.
- Eye Irrit. 2; H319: Causes serious eye irritation, C ≥ 5%.
- Resp. Sens. 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- STOT Sing. Exp. 3. H335: May cause respiratory irritation, C ≥ 5%.
- STOT Rep. Exp. 2. H373: May cause damage to organs through prolonged or repeated exposure.
- Skin Sens. 1; H317: May cause an allergic skin reaction.
- Carc. 2; H351: Suspected of causing cancer.
- EUH204: Contains isocyanates. May produce an allergic reaction.

According to DSD criteria:

- Xn; R20 Harmful; Harmful by inhalation.
- Xn; R48/20 Harmful; Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- Xi; R36/37/38 Irritant; Irritating to eyes, respiratory system and skin.
- R42/43 May cause sensitisation by inhalation and skin contact.
- Carc. Cat. 3; R40 Limited evidence of a carcinogenic effect.

## 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 checked="" type="checkbox"/> (Suspected) PBT	<input 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)	

It is unclear if hydrolysis of the substance is complete or not. There is also no information on degradation of hydrolysis products. The substance appears to meet B (bioaccumulation) and T (toxic) criteria. According to Annex X (8.7.) of the REACH regulation, reproductive toxicity study should be done.

### 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 checked="" type="checkbox"/> 1000 – 10,000 tpa	<input type="checkbox"/> 10,000 – 100,000 tpa		
<input type="checkbox"/> 100,000 – 1000,000 tpa	<input type="checkbox"/> > 1000,000 tpa		
<input type="checkbox"/> Confidential			
<i>Please provide further details</i>			
<input checked="" type="checkbox"/> Industrial use	<input checked="" type="checkbox"/> Professional use	<input checked="" type="checkbox"/> Consumer use	<input checked="" type="checkbox"/> Closed System
Substance is used in several consumer products.			

### 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 type="checkbox"/> Annex VI (CLP)	<input type="checkbox"/> Plant Protection Products Regulation 91/414/EEC
<input type="checkbox"/> Annex XV (SVHC)	<input 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)	
<i>Please provide further details</i>	

### 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 checked="" type="checkbox"/> Information on fate and behaviour	<input checked="" 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)	
<p>Requested information should help to understand how much of the substance reach to the environment, behavior in the environment, completeness of the hydrolysis, degradation of the hydrolysis products.</p> <p>To fulfill the REACH requirements for reproductive toxicity endpoint.</p>	

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

<input type="checkbox"/> Restriction	<input checked="" type="checkbox"/> Harmonised C&L	<input checked="" type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
<i>Please provide further details</i>			