

## **Justification for the selection of a candidate CoRAP substance**

**Substance Name (Public name):** tetrachloroethylene  
**EC Number:** 204-825-9  
**CAS Number:** 127-18-4  
**Submitted by:** Latvia  
**Published:** 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

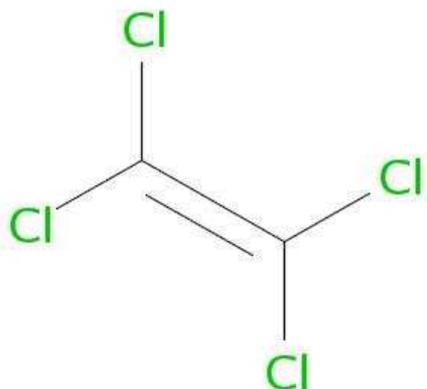
## 1.1 Name and other identifiers of the substance

**Table 1: Substance identity**

<b>EC number:</b>	204-825-9
<b>EC name:</b>	tetrachloroethylene
<b>CAS number (in the EC inventory):</b>	127-18-4
<b>CAS number:</b>	127-18-4
<b>CAS name:</b>	tetrachloroethylene
<b>IUPAC name:</b>	tetrachloroethene
<b>Index number in Annex VI of the CLP Regulation</b>	602-028-00-4
<b>Molecular formula:</b>	C <sub>2</sub> Cl <sub>4</sub>
<b>Molecular weight or molecular weight range:</b>	166 g/mol
<b>Synonyms:</b>	perchloroethene, perchloroethylene, Perc, PCE

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

### Structural formula:



## 2 CLASSIFICATION AND LABELLING

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

Table 3.1, Index no. 602-028-00-4:

Classification		Labelling		Suppl. Hazard statement code(s)
Hazard Class and Category Code(s)	Hazard statement Code(s)	Pictogram, Signal Word Code(s)	Hazard statement Code(s)	
Carc. 2	H351	GHS08	H351	
Aquatic Chronic 2	H411	GHS09 Wng	H411	

H351: Suspected of causing cancer.

H411: Toxic to aquatic life with long lasting effects.

Table 3.2:

Classification	Risk phrases	Safety phrases	Indication(s) of danger
Carc. Cat. 3; R40 N; R51-53	40 51/53	2 - 23 - 36/37 - 61	Xn N

R40: Limited evidence of a carcinogenic effect.

R51/53: 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 formal proposals.

But in the Risk Assessment Report from 2005 documenting the work done under the Existing Substances Regulation (EEC) No 793/93 and submitted to the European Chemicals Agency in 2009 according to Article 136(3) of Regulation (EC) No 1907/2006, the following addition to the above classification and labelling is proposed for human health:

Xi;R38: Irritating to skin.

R67: Vapours may cause drowsiness and dizziness".

### 2.3 Self classification

The registrants follow the harmonised classification in section 2.1 and in addition includes the following self classifications:

According to CLP: Skin Irrit. 2 H315: Causes skin irritation.

Skin Sens. 1B H317: May cause an allergic skin reaction.

STOT Single Exp. 3 H336: May cause drowsiness or dizziness.

According to 67/548/EEC: Xi; R38: Irritating to skin.

R43: May cause sensitisation by skin contact.

R67: Vapours may cause drowsiness and dizziness.

In addition to the harmonised and self classification given above, is the following classification notified to the Classification and Labelling Inventory:

Eye Irrit. 2; H319: Causes serious eye irritation.

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

The substance is a potential PBT with wide and dispersive uses. While substance is not available in consumer products, there is risk possibility of high exposure at the workplace. The substance has been assessed under the Existing Substances Regulation (EC) No. 793/93. The conclusion was that the 'B' criterion has not been met.

However, taking into consideration classification (see Section 2.1), its market volume (see Section 3.3), and marginal case regarding bioaccumulation criterion, it is advised to further investigate use and exposure pattern for tetrachloroethylene.

#### 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 type="checkbox"/> 10,000 - 100,000 tpa	<input checked="" type="checkbox"/> 100,000 - 1,000,000 tpa
<input type="checkbox"/> 1,000,000 - 10,000,000 tpa	<input type="checkbox"/> > 10,000,000 tpa	<input type="checkbox"/> Confidential
<i>Please provide further details if appropriate</i>		
<input checked="" type="checkbox"/> Industrial use	<input checked="" type="checkbox"/> Professional use	<input type="checkbox"/> Consumer use
		<input checked="" type="checkbox"/> Closed System

Tetrachloroethylene is solvent used in organic synthesis. It is used also in dry cleaning operations. It may be used in a mixture with other chlorocarbons as degreasing agent in automotive and other metalworking industries. May be a part of paint strippers and spot removers composition.

### 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 checked="" 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)	
Available Risk Assessment Reports:	
Part I - environment (2005): <a href="http://echa.europa.eu/documents/10162/130bc4f2-68a8-45d8-88d7-e6db88f76a98">http://echa.europa.eu/documents/10162/130bc4f2-68a8-45d8-88d7-e6db88f76a98</a>	
Final report (2008): <a href="http://echa.europa.eu/documents/10162/13630/trd_uk_tetrachlorethylene_en.pdf">http://echa.europa.eu/documents/10162/13630/trd_uk_tetrachlorethylene_en.pdf</a>	

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

<input type="checkbox"/> Information on toxicological properties	<input type="checkbox"/> Information on physico-chemical properties
<input type="checkbox"/> Information on fate and behaviour	<input checked="" type="checkbox"/> Information on exposure
<input type="checkbox"/> Information on ecotoxicological properties	<input checked="" type="checkbox"/> Information on uses
<input type="checkbox"/> Other (provide further details below)	
Further information on use and exposure is needed to clarify the suspected risks.	

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

<input type="checkbox"/> Restriction	<input type="checkbox"/> Harmonised C&L	<input type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
Depending on outcome of substance evaluation.			