# Justification for the selection of a candidate CoRAP substance

Substance Name (Public  $_{ extstyle \top}$ 

Name):

Titanium dioxide

**Chemical Group:** 

**EC Number:** 236-675-5

**CAS Number:** 13463-67-7

**Submitted by:** FRANCE

**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

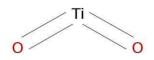
### 1.1 Name and other identifiers of the substance

Table 1: Substance identity

Public Name:	titanium dioxide			
- abile Hamer				
EC number:	236-675-5			
EC name:	titanium dioxide			
CAS number (in the EC inventory):	13463-67-7			
CAS number:	13463-67-7			
CAS name:	-			
IUPAC name:	dioxotitanium			
Index number in Annex VI of the CLP Regulation	-			
Molecular formula:	O2Ti			
Molecular weight or molecular weight range:	79.8658			
Synonyms:				

Type of  substance:   ✓ Mono-constituent  □ N	Multi-constituent □ UVCB
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### **Structural formula:**



#### 2 CLASSIFICATION AND LABELLING

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

None

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

#### 2.3 Self classification

The registration data did not include any classification.

# <u>In addition are the following classification(s) included in the Classification and Labelling Inventory:</u>

Acute Tox. 4	H332: Harmful if inhaled.
Carc. 2	H351: suspected of causing cancer.
Eye Irrit. 2	H319: Causes serious eye irritation.
STOT SE 3	H335: may cause respiratory irritation.
STOT RE 1	H372; causes damage to organs.
Skin Irrit. 2	H315; causes skin irritation.
STOT SE 2	H371; may cause damage to organs.
Carc. 1B	H350; may cause cancer.
Aquatic Chronic 4	H413; may cause long lasting effects to aquatic life.

# 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)							
C Article 45(5) (Member State priority)							
ern							
Wide dispersive use     ■ Wide dispersive use			☐ Cumulative exposure				
		☐ High RCR					
Exposure of sensitive populations		✓ Aggregated tonnage					
Other (provi	Other (provide further details below)						
Titanium dioxide is classified Carc. Cat. 2B by IARC. See also the work published by Afsset (Evaluation des risqué lies aux nanomateriaux pour la population générale et pour l'environnement, Mars 2010, France. See website of Anses: www.anses.fr).  Given the state of knowledge in the field of nanomaterials and in particular to the titanium dioxide nanomaterials, it is recommended to include titanium dioxide in the CoRAP for 2014 in order to get a better understanding of the properties of the titanium dioxide nanomaterials.							
3.3 Information on aggregated tonnage and uses							
100 -	1000 t	1000 - 10,000 t					
	7 1000,000 1		10,000,000 t Confidential				
1,000,000 - 10,000,000 tonnes per annum							
sional Use Consu		ımer Use	Closed System				
	on criteria for substancia for substance. Cat. 2B by Inanomateriaux ance. See webstance. See webstance of the property of the	on criteria for substance evaluation of criteria for substance evaluation or criteria for substance evaluation or criteria for substance evaluation or consumer use	on criteria for substance evaluation)  iority)  ern  ✓ Wide dispersive use  ✓ Consumer use  ✓ Exposure of sensitive populations  ✓ Other (provide further details below)  arc. Cat. 2B by IARC. See also the wonanomateriaux pour la population gérance. See website of Anses: www.ansin the field of nanomaterials and incommended to include titanium dioxiding of the properties of the titanium  ggregated tonnage and uses  □ 100 - 1000 t □ 1000 - 10,000  □ 1000,000 t □ > 10000,000 t □ 1,0000,000 - □ 1,000	on criteria for substance evaluation)  ority)  ern    Wide dispersive use			

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

☐ Compliance Check	☐ Annex VI (CLP)						
☐ Testing Proposal(s)	☐ Annex XIV (Authorisation)						
☐ Substance Identification Issues	☐ Annex XVII (Restriction)						
☐ ESR Programme	✓ Other (provide further details below)						
Working Party on Manufactured Nanomaterials of the OECD where France is co-sponsored with Germany on the assessment of health and environmental risks of titanium dioxide (Subgroup of WPMN 3).							
Joint Action NANOGENOTOX, which began in March 2010 and is coordinated by FR. This action is dedicated on four titanium dioxide nanomaterials referenced by the OECD. The complete results of this work will therefore should be available in March 2013.							
3.5 Information to be requested to clarify the suspected risk							
✓ Information on toxicological properties	▼ Information on exposure						
✓ Information on fate and behaviour	▼ Information on uses						
☐ Information on ecotoxicological properties	☐ Other (provide further details below)						
☐ Information on physico-chemical properties							
Exact information required to be determined during the substance evaluation							
3.6 Potential follow-up and link	to risk management						
☐ Restriction ☐ Harmonised C&L	Restriction						
☐ Authorisation ☐ Other (provide furth	ner details below)						
Depends on the outcome of substance evaluation							

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