

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

**Substance Name (Public Name):** 1,1,1,3,3,3-hexamethyldisilazane

**Chemical Group:**

**EC Number:** 213-668-5

**CAS Number:** 999-97-3

**Submitted by:** ES CA for Environment

**Published:** 20/03/2013

### **Note**

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

## Contents

1	IDENTITY OF THE SUBSTANCE	3
1.1	Name and other identifiers of the substance	3
2	CLASSIFICATION AND LABELLING	4
2.1	Harmonised Classification in Annex VI of the CLP	4
2.2	Proposal for Harmonised Classification in Annex VI of the CLP	4
2.3	Self classification	4
3	JUSTIFICATION FOR THE SELECTION	5
3.1	Legal basis for the proposal	5
3.2	Grounds for concern	5
3.3	Information on aggregated tonnage and uses	5
3.4	Other completed/ongoing regulatory processes	6
3.5	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

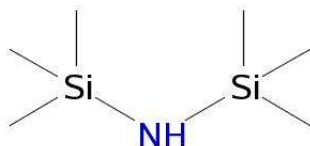
### 1.1 Name and other identifiers of the substance

**Table 1: Substance identity**

<b>Public Name:</b>	1,1,1,3,3,3-hexamethyldisilazane
<b>EC number:</b>	213-668-5
<b>EC name:</b>	1,1,1,3,3,3-hexamethyldisilazane
<b>CAS number (in the EC inventory):</b>	
<b>CAS number:</b>	999-97-3
<b>CAS name:</b>	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-
<b>IUPAC name:</b>	1,1,1-trimethyl-N-(trimethylsilyl)silanamine
<b>Index number in Annex VI of the CLP Regulation</b>	-
<b>Molecular formula:</b>	C <sub>6</sub> H <sub>19</sub> NSi <sub>2</sub>
<b>Molecular weight or molecular weight range:</b>	161.3928
<b>Synonyms:</b>	1,1,1,3,3,3-hexamethyldisilazane hexamethyldisilazane silanamine, 1,1,1- trimethyl-N-(trimethylsilyl) Disilazane, 1,1,1,3,3,3-hexamethyl

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

**Structural formula:**



## **2 CLASSIFICATION AND LABELLING**

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

Not listed.

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

Not given

### **2.3 Self classification**

DSD self classification

F; R11 Highly flammable; Highly flammable

Xn; R20/21/22 Harmful; Harmful by inhalation, in contact with skin and if swallowed.

C; R34 Corrosive; Causes burns.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Note: the classification found in ECHA-CHEM database for information on registered substances was the same

CLP self classification

Flam. Liquid 2 H225: Highly flammable liquid and vapour

Acute Tox. 4 H302: Harmful if swallowed

Acute Tox. 3 H311: Toxic in contact with skin

Acute Tox. 4 H332: Harmful if inhaled

Skin Corr. 1B H314: Causes severe skin burns and eye damage

Aquatic Chronic 3H412: Harmful to aquatic life with long lasting effects

NOTE: It must be kept in mind that in 2014 (year of evaluation) the 2<sup>nd</sup> ATP of CLP Regulation will be in force and the classification for aquatic hazards may differ.

Classification and labelling inventory additionally includes the following classifications;

Eye Dam. 1; H318: causes serious eye damage.

Acute Tox. 3; H331: toxic if inhaled.

### 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 type="checkbox"/> (Suspected) CMR	<input type="checkbox"/> Wide dispersive use	<input type="checkbox"/> Cumulative exposure
<input type="checkbox"/> (Suspected) Sensitiser	<input type="checkbox"/> Consumer use	<input checked="" type="checkbox"/> High RCR
<input 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)	

**Exposure/High tonnage; Risk characterisation ratio close to 1 (for terrestrial compartment)**

Concern for terrestrial compartment, as risk characterisation ratio is close to 1 and additional sources to soil (e.g. via atmospheric deposition, aggregated tonnage, etc.) as well as the sorption capability to minerals may have been underestimated. This applies for both the mother substance and its hydrolysis products.

#### 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"/> 50,000 -
<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 type="checkbox"/> Professional use	<input type="checkbox"/> Consumer use
<input type="checkbox"/> Closed System		
<i>Please provide further details</i>		

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

<input checked="" type="checkbox"/> Compliance check final	<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)	

### 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 checked="" type="checkbox"/> Information on ecotoxicological properties	<input type="checkbox"/> Information on uses
<input type="checkbox"/> Other (provide further details below)	
Refinement of exposure assessment, adsorption to mineral surfaces, justification for release factors from different uses, terrestrial toxicity.	

### 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)
Follow-up regulatory actions will be set depending on the outcome of the evaluation. That is, further information is needed to make a decision on the preparation of an Annex XV dossier either for authorization or restriction.			