

**Substance Name: dinoseb(ISO); 6-sec-butyl-2,4-dinitrophenol**

**EC Number: 201-861-7**

**CAS Number: 88-85-7**

**SUPPORT DOCUMENT FOR IDENTIFICATION OF**

**DINOSEB(ISO); 6-SEC-BUTYL-2,4-DINITROPHENOL**

**AS A SUBSTANCE OF VERY HIGH CONCERN BECAUSE OF ITS  
CMR<sup>1</sup> PROPERTIES**

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<sup>1</sup> CMR means carcinogenic, mutagenic or toxic for reproduction



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The substance is identified as substance meeting the criteria of Article 57 (c) of Regulation (EC) 1907/2006 (REACH) owing to its classification as toxic for reproduction category 1B<sup>2</sup> which corresponds to classification as mutagen category 2<sup>3</sup>.

**Summary of how the substance meets the criteria set out in Article 57 (c) of REACH (Repr. 1B).**

Dinoseb(ISO); 6-sec-butyl-2,4-dinitrophenol is covered by Index number 609-025-00-7 in Regulation (EC) No 1272/2008 and classified in Annex VI, part 3, Table 3.1 (list of harmonised classification and labelling of hazardous substances) as toxic for reproduction, Repr. 1B (H360D: "May damage the unborn child."). The corresponding classification in Annex VI, part 3, Table 3.2 (the list of harmonised and classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is toxic for reproduction, Repr. Cat. 2, R61 ("May cause harm to the unborn child").

Therefore, this classification of the substance in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification as toxic for reproduction in accordance with Article 57 (c) of REACH.

**Registration dossiers submitted for the substance? Yes**

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<sup>2</sup> Classification in accordance with Regulation (EC) No 1272/2008 Annex VI, part 3, Table 3.1 List of harmonised classification and labelling of hazardous substances.

<sup>3</sup> Classification in accordance with Regulation (EC) No 1272/2008, Annex VI, part 3, Table 3.2 List of harmonised classification and labelling of hazardous substances (from Annex I to Council Directive 67/548/EEC).

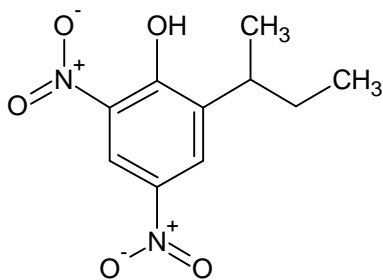
## **JUSTIFICATION**

### **1 Identity of the substance and physical and chemical properties**

#### **1.1 Name and other identifiers of the substance**

**Table 1: Substance identity**

<b>EC number:</b>	201-861-7
<b>EC name:</b>	Dinoseb
<b>CAS number (in the EC inventory):</b>	88-85-7
<b>CAS number:</b> <b>Deleted CAS numbers:</b>	88-85-7 152212-20-9 39403-80-0
<b>CAS name:</b>	Phenol, 2-(1-methylpropyl)-4,6-dinitro-
<b>IUPAC name:</b>	2-sec-Butyl-4,6-dinitrophenol
<b>Index number in Annex VI of the CLP Regulation</b>	609-025-00-7
<b>Molecular formula:</b>	C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> O <sub>5</sub>
<b>Molecular weight:</b>	240.2 g/mol
<b>Synonyms:</b>	Phenol, 2-sec-butyl-4,6-dinitro- 2,4-Dinitro-6-(1-methylpropyl)phenol 2,4-Dinitro-6-sec-butylphenol 2-(1-Methylpropyl)-4,6-dinitrophenol 2-sec-Butyl-4,6-dinitrophenol 4,6-Dinitro-2-(1-methyl-n-propyl)phenol 4,6-Dinitro-2-(2-butyl)phenol 4,6-Dinitro-2-sec-butylphenol 4,6-Dinitro-o-sec-butylphenol 6-sec-Butyl-2,4-dinitrophenol Aatox Blaartox BNP 20 BNP 30 Butaphen Butaphene Chemox P.E. DBNF Desicoil Dibutox Dibutox 20CE DN 289 DNBP DNOSBP DNSBP Dow General Dytop Hivertox Ladob Laseb Liro DNBP NSC 202753 Premerge Super Kabrol WSX 8365

**Structural formula:****1.2 Composition of the substance****Name:** dinoseb(ISO); 6-sec-butyl-2,4-dinitrophenol**Description:** ---**Degree of purity:** 93 - 98 %**Table 2: Constituents**

<b>Constituents</b>	<b>Typical concentration</b>	<b>Concentration range</b>	<b>Remarks</b>
dinoseb(ISO); 6-sec-butyl-2,4- dinitrophenol 201-861-7		93 - 98 %	According to the information available in the registration dossiers

## 2 Harmonised classification and labelling

Dinoseb(ISO); 6-sec-butyl-2,4-dinitrophenol is covered by Index number 609-025-00-7 in Annex VI, part 3 of Regulation (EC) No 1272/2008 as follows:

**Table 3: Classification according to part 3 of Annex VI, Table 3.1 ((list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008**

Index No	International Chemical Identification	EC No	CAS No	Classification		Labelling			Spec. Conc. Limits, M-factors	Notes
				Hazard Class and Category Code(s)	Hazard statement code(s)	Pictogram , Signal Word Code(s)	Hazard statement code(s)	Suppl. Hazard statement code(s)		
609-025-00-7	6-sec-butyl-2,4-dinitrophenol dinoseb (ISO)	201-861-7	88-85-7	Repr. 1B Acute Tox. 3 * Acute Tox. 3 * Eye Irrit. 2 Aquatic Acute 1 Aquatic Chronic 1	H360Df H311 H301 H319 H400 H410	GHS06 GHS08 GHS09 Dgr	H360Df H311 H301 H319 H410	EUH044		



**Table 4: Classification according to part 3 of Annex VI, Table 3.2 (list of harmonized classification and labelling of hazardous substances from Annex I of Council Directive 67/548/EEC) of Regulation (EC) No 1272/2008**

<b>Index No</b>	<b>International Chemical Identification</b>	<b>EC No</b>	<b>CAS No</b>	<b>Classification</b>	<b>Labelling</b>	<b>Concentration Limits</b>	<b>Notes</b>
609-025-00-7	6-sec-butyl-2,4-dinitrophenol dinoseb (ISO)	201-861-7	88-85-7	R44 T; R24/25 Repr. Cat. 2; R61 Repr. Cat. 3; R62 Xi; R36 N; R50-53	T; N R: 61-62-24/25-36-44-50/53 S: 53-45-60-61		E

### **3 Environmental fate properties**

*Not relevant for the identification of the substance as SVHC in accordance with Article 57c.*

### **4 Human health hazard assessment**

*See section 2 on harmonised classification and labelling.*

### **5 Environmental hazard assessment**

*Not relevant for the identification of the substance as SVHC in accordance with Article 57c.*

## **6 Conclusions on the SVHC Properties**

### **6.1 CMR assessment**

Dinoseb(ISO); 6-sec-butyl-2,4-dinitrophenol is covered by Index number 609-025-00-7 in Regulation (EC) No 1272/2008 and classified in Annex VI, part 3, Table 3.1 (list of harmonised classification and labelling of hazardous substances) as toxic for reproduction, Repr. 1B (H360D: "May damage the unborn child."). The corresponding classification in Annex VI, part 3, Table 3.2 (the list of harmonised and classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is toxic for reproduction, Repr. Cat. 2, R61 ("May cause harm to the unborn child").

Therefore, this classification of the substance in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification as toxic for reproduction in accordance with Article 57 (c) of REACH.