



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 6065

Print date: 27.07.2015

Product code: 96065

Page 2 of 10

H302	Harmful if swallowed.
H335	May cause respiratory irritation.
H314	Causes severe skin burns and eye damage.

#### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original container.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P310	Immediately call a POISON CENTER/doctor.
P411+P235	Store at temperatures not exceeding 25 °C/77 °F. Keep cool.

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
215-661-2	2-Butanone peroxide	
1338-23-4	O - Oxidizing, C - Corrosive, Xn - Harmful R07-22-34	
	Org. Perox. CD, Acute Tox. 4, Skin Corr. 1B; H242 H302 H314	
235-527-7	Cyclohexanone, peroxide	10 - 20 %
12262-58-7	E - Explosive, O - Oxidizing, C - Corrosive, Xn - Harmful R3-7-34-22	
617-010-00-1	Org. Perox. A, Acute Tox. 4, Skin Corr. 1B; H240 H302 H314	

Full text of R-, H- and EUH-phrases: see section 16.

#### Further Information

Note: Each entry in the column EC number that begins with the number "9" is - until the publication the official registration number - one specified by ECHA provisional number for the substance. The above-mentioned substance(s) in this product is (are) identified by CAS number and indeed in Countries that are not subject to the REACH Regulation, or in a regulation which is not in accordance with new naming convention for hydrocarbons have been updated.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

If unconscious place in recovery position and seek medical advice.  
 Never give anything by mouth to an unconscious person or a person with cramps.  
 In all cases of doubt, or when symptoms persist, seek medical advice.  
 First aider: Pay attention to self-protection!

##### After inhalation

Remove casualty to fresh air and keep warm and at rest.  
 IF INHALED: Call a POISON CENTER if you feel unwell.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 6065

Print date: 27.07.2015

Product code: 96065

Page 3 of 10

#### **After contact with skin**

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.  
If skin irritation occurs: Get medical advice/attention.  
Change contaminated clothing.

#### **After contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

#### **After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Pulmonary irritation  
Irritation to eyes  
Skin sensitisation  
Nausea  
Drowsiness  
Headache.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

## **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>)  
Extinguishing powder  
Water spray jet  
alcohol resistant foam

##### **Unsuitable extinguishing media**

Full water jet

#### **5.2. Special hazards arising from the substance or mixture**

Oxidising  
In case of fire may be liberated: Carbon monoxide. Carbon dioxide.

#### **5.3. Advice for firefighters**

Do not inhale explosion and combustion gases.  
Use water spray jet to protect personnel and to cool endangered containers.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothes.  
Provide adequate ventilation.  
Keep away from sources of ignition. - No smoking.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

#### **6.3. Methods and material for containment and cleaning up**

Special danger of slipping by leaking/spilling product.  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

## DINITROL 6065

Print date: 27.07.2015

Product code: 96065

Page 4 of 10

### 6.4. Reference to other sections

Safe handling: see section 7  
 Personal protection equipment: see section 8  
 Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep away from heat. Protect against direct sunlight.  
 If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.  
 Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
 When using do not eat, drink or smoke.  
 Wash hands before breaks and after work.  
 Handle and open container with care.

#### Advice on protection against fire and explosion

Oxidising  
 Keep away from heat.  
 Keep away from sources of ignition. - No smoking.  
 Take precautionary measures against static discharges.  
 Handle with care - avoid bumps, friction and impact.  
 Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.  
 Use only non-sparking tools.  
 Vapours can form explosive mixtures with air.  
 Wear anti-static footwear and clothing  
 In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.  
 Only use containers specifically approved for the substance/product.

#### Advice on storage compatibility

Do not store together with: Heavy metals. amines.  
 Keep away from food, drink and animal feedingstuffs.

#### Further information on storage conditions

Keep container tightly closed.  
 Keep away from heat. Protect against direct sunlight.  
 storage temperature: +5 ... +25 °C

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
131-11-3	Dimethyl phthalate	-	5		TWA (8 h)	WEL
		-	10		STEL (15 min)	WEL
1338-23-4	Methyl ethyl ketone peroxides (MEKP)	-	-		TWA (8 h)	WEL
		0.2	1.5		STEL (15 min)	WEL

## DINITROL 6065

Print date: 27.07.2015

Product code: 96065

Page 5 of 10

### DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
131-11-3	Dimethylphthalate		
Worker DNEL, long-term	inhalation	systemic	293,86 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	100 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	86,96 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	60 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	25 mg/kg bw/day

### PNEC values

CAS No	Substance	
Environmental compartment	Value	
131-11-3	Dimethylphthalate	
Freshwater	0,192 mg/l	
Marine water	0,0192 mg/l	
Freshwater sediment	1,403 mg/kg	
Micro organisms in sewage treatment plants (STP)	4 mg/l	
Soil	3,16 mg/kg	

## 8.2. Exposure controls

### Appropriate engineering controls

Provide adequate ventilation.  
 If handled uncovered, arrangements with local exhaust ventilation should be used if possible.  
 If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs.  
 When using do not eat or drink.  
 Wash hands before breaks and after work.  
 Avoid contact with skin and eyes.  
 Remove contaminated, saturated clothing immediately.

### Eye/face protection

Eye glasses with side protection (DIN EN 166)

### Hand protection

Tested protective gloves must be worn (DIN EN 374).  
 Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber)  
 For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
 Protective gloves have to be replaced at the first sign of deterioration.  
 Protect skin by using skin protective cream.

### Skin protection

Protective clothing

### Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.  
 gas filtering equipment (EN 141), Filter material/medium: A2

**DINITROL 6065**

Print date: 27.07.2015

Product code: 96065

Page 6 of 10

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state: liquid  
 Colour: colourless  
 Odour: characteristic

**Test method**

pH-Value: not determined

**Changes in the physical state**

Melting point: not applicable  
 Initial boiling point and boiling range: not applicable  
 Sublimation point: not applicable  
 Softening point: not applicable  
 Pour point: not applicable  
 Flash point: >80 °C

**Flammability**

Solid: not applicable  
 Gas: not applicable

**Explosive properties**

not determined

Lower explosion limits: not determined  
 Upper explosion limits: not determined  
 Ignition temperature: not determined

**Auto-ignition temperature**

Solid: not applicable  
 Gas: not applicable

Decomposition temperature: SADT (°C): 65 °C

**Oxidizing properties**

Oxidizing

Vapour pressure: not determined  
 Density (at 20 °C): 1,12 g/cm³  
 Bulk density: not applicable  
 Water solubility: not determined

**Solubility in other solvents**

not determined

Partition coefficient: not determined  
 Viscosity / dynamic: 38 mPa·s  
 Viscosity / kinematic: not determined  
 Flow time: not determined  
 Vapour density: not determined  
 Evaporation rate: not determined  
 Solvent separation test: not determined

according to Regulation (EC) No 1907/2006

## DINITROL 6065

Print date: 27.07.2015

Product code: 96065

Page 7 of 10

### 9.2. Other information

Available oxygen content (%): 9,6-9,8 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.  
Thermal decomposition, Danger of spontaneous combustion

### 10.3. Possibility of hazardous reactions

Decomposition takes place from temperatures above: 65°C

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

Decomposition with: Reducing agent. Heavy metals. Alkalis (alkalis). amines. Strong acid

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

#### ATEmix calculated

ATE (oral) 1250,0 mg/kg

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1338-23-4	2-Butanone peroxide				
	oral	ATE	500 mg/kg		
12262-58-7	Cyclohexanone, peroxide				
	oral	ATE	500 mg/kg		

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause respiratory irritation.

#### Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

according to Regulation (EC) No 1907/2006

**DINITROL 6065**

Print date: 27.07.2015

Product code: 96065

Page 8 of 10

There are no data available on the mixture itself.

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment**

not applicable

**12.6. Other adverse effects**

There are no data available on the mixture itself.

**Further information**

There are no data available on the preparation/mixture itself.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation. Do not mix with other wastes.  
List of proposed waste codes/waste designations in accordance with EWC:

**Waste disposal number of waste from residues/unused products**

160903 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; oxidising substances; peroxides, for example hydrogen peroxide  
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Do not allow to enter into surface water or drains.  
Remove according to the regulations.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:**

UN 3105

**14.2. UN proper shipping name:**

ORGANIC PEROXIDE TYPE D, LIQUID (Methylethylketon(e), Cyclohexanonperoxid(e))

**14.3. Transport hazard class(es):**

5.2

**14.4. Packing group:**

II

Hazard label:

5.2



Classification code:

P1

Special Provisions:

122 274

Limited quantity:

125 mL

Transport category:

2

Tunnel restriction code:

D



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**DINITROL 6065**

Print date: 27.07.2015


Product code: 96065

Page 9 of 10

**Other applicable information (land transport)**

E0


**Marine transport (IMDG)**

<b>14.1. UN number:</b>	UN 3105
<b>14.2. UN proper shipping name:</b>	ORGANIC PEROXIDE TYPE D, LIQUID (Methylethylketon(e), Cyclohexanonperoxid(e))
<b>14.3. Transport hazard class(es):</b>	5.2
<b>14.4. Packing group:</b>	II
Hazard label:	5.2
	
Marine pollutant:	no
Special Provisions:	122, 274
Limited quantity:	125 mL
EmS:	F-J, S-R

**Other applicable information (marine transport)**

E0

**Air transport (ICAO)**

<b>14.1. UN number:</b>	UN 3105
<b>14.2. UN proper shipping name:</b>	ORGANIC PEROXIDE TYPE D, LIQUID (Methylethylketon(e), Cyclohexanonperoxid(e))
<b>14.3. Transport hazard class(es):</b>	5.2
<b>14.4. Packing group:</b>	II
Hazard label:	5.2
	
Special Provisions:	A20 A150 A802
Limited quantity Passenger:	Forbidden
IATA-packing instructions - Passenger:	570
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	570
IATA-max. quantity - Cargo:	10 L

**Other applicable information (air transport)**

Passenger-LQ: Forbidden

E0

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Warning: Organic peroxides

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 6065

Print date: 27.07.2015

Product code: 96065

Page 10 of 10

#### National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 1 - slightly water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

#### Relevant R-phrases (Number and full text)

03 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

07 May cause fire.

22 Harmful if swallowed.

34 Causes burns.

#### Relevant H- and EUH-phrases (Number and full text)

H240 Heating may cause an explosion.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*