



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**DINITROL 443 Zinkfarbe Fassware**

Print date: 11.02.2015

Product code: 5063

Page 2 of 13

Pictograms:

GHS02-GHS07-GHS08-GHS09

**Hazard statements**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	This material and its container must be disposed of as hazardous waste.

**Special labelling of certain mixtures**

EUH208	Contains 2-butanone oxime. May produce an allergic reaction.
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**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 443 Zinkfarbe Fassware

Print date: 11.02.2015

Product code: 5063

Page 3 of 13

#### 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		
231-175-3	zinc powder - zinc dust (stabilized)	55 - < 60 %
7440-66-6	N - Dangerous for the environment R50-53	
030-001-01-9	Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H400 H410	
01-2119467174-37		
215-535-7	xylene	25 - < 30 %
1330-20-7	Xn - Harmful, Xi - Irritant R10-20/21-38	
601-022-00-9	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H312 H332 H315 H319 H335 H373 H304	
01-2119488216-32		
202-849-4	ethylbenzene	3 - < 5 %
100-41-4	F - Highly flammable, Xn - Harmful R11-20	
601-023-00-4	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304	
01-2119892111-44		
202-496-6	2-butanone oxime	0.1 - < 1 %
96-29-7	Carc. Cat. 3, Xn - Harmful, Xi - Irritant R40-21-41-43	
616-014-00-0	Carc. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1; H351 H312 H318 H317	

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

In all cases of doubt, or when symptoms persist, seek medical advice.

##### After inhalation

Remove casualty to fresh air and keep warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.  
If unconscious place in recovery position and seek medical advice.

##### After contact with skin

Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
Take off immediately all contaminated clothing and wash it before reuse.

##### 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. In case of eye irritation consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

according to Regulation (EC) No 1907/2006

**DINITROL 443 Zinkfarbe Fassware**

Print date: 11.02.2015

Product code: 5063

Page 4 of 13

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

Nausea, Dizziness, 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>), Sand, Extinguishing powder. Never use water.**Unsuitable extinguishing media**

Water, High power water jet.

**5.2. Special hazards arising from the substance or mixture**Hazardous decomposition products: Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.**5.3. Advice for firefighters**

Use water spray jet to protect personnel and to cool endangered containers.

**Additional information**

Suppress gases/vapours/mists with water spray jet. 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**Remove all sources of ignition. Provide adequate ventilation.  
Do not breathe gas/fumes/vapour/spray.  
Avoid contact with skin, eyes and clothes.  
Use personal protection equipment.**6.2. Environmental precautions**Do not allow uncontrolled discharge of product into the environment.  
Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.**6.3. Methods and material for containment and cleaning up**Prevent spread over a wide area (e.g. by containment or oil barriers).  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Do not rinse down with water.  
Treat the recovered material as prescribed in the section on waste disposal.**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**If handled uncovered, arrangements with local exhaust ventilation have to be used.  
Do not breathe gas/fumes/vapour/spray.**Advice on protection against fire and explosion**Keep away from sources of ignition. - No smoking.  
Take precautionary measures against static discharge.  
Vapours can form explosive mixtures with air.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 443 Zinkfarbe Fassware

Print date: 11.02.2015

Product code: 5063

Page 5 of 13

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

##### Requirements for storage rooms and vessels

- Keep container tightly closed in a cool, well-ventilated place.
- Keep container dry. Keep locked up.
- Store in a place accessible by authorized persons only.
- Keep away from heat. Protect against direct sunlight.

##### Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

#### 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
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

##### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 443 Zinkfarbe Fassware

Print date: 11.02.2015

Product code: 5063

Page 6 of 13

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
1330-20-7	xylene			
Worker DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	289 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	174 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	77 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	174 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	174 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m <sup>3</sup>
100-41-4	ethylbenzene			
Worker DNEL, long-term		inhalation	systemic	77 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	293 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	15 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
96-29-7	2-butanone oxime			
Worker DNEL, long-term		inhalation	systemic	9,0 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	3,33 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,3 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	2,0 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,78 mg/kg bw/day

according to Regulation (EC) No 1907/2006

## DINITROL 443 Zinkfarbe Fassware

Print date: 11.02.2015

Product code: 5063

Page 7 of 13

### PNEC values

CAS No	Substance	Value
Environmental compartment		
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Soil		2,31 mg/kg
Micro organisms in sewage treatment plants (STP)		6,58 mg/l
100-41-4	ethylbenzene	
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		13,7 mg/kg
Marine sediment		1,37 mg/kg
Secondary poisoning		0,02 mg/kg
Soil		2,68 mg/kg
Micro organisms in sewage treatment plants (STP)		9,6 mg/l
96-29-7	2-butanone oxime	
Freshwater		0,256 mg/l
Micro organisms in sewage treatment plants (STP)		177 mg/l

### 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 feeding stuffs.

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.

Do not breathe gas/vapour/aerosol.

#### Eye/face protection

Eye glasses with side protection

#### Hand protection

Suitable gloves type:

FKM (fluoro rubber), Breakthrough time (maximum wearing time): 480 min.

PVA (Polyvinyl alcohol), Breakthrough time (maximum wearing time): 480 min.

according to Regulation (EC) No 1907/2006

**DINITROL 443 Zinkfarbe Fassware**

Print date: 11.02.2015

Product code: 5063

Page 8 of 13

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**

Wear anti-static footwear and clothing

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.  
 gas filtering equipment (EN 141)., Filter material/medium: A/P2

**SECTION 9: Physical and chemical properties**

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

Physical state: liquid  
 Colour: grey  
 Odour: characteristic

**Test method**

pH-Value: not determined

**Changes in the physical state**

Melting point: not determined

Initial boiling point and boiling range: 136 °C

Flash point: 28 °C DIN 51755

**Flammability**

Solid: not applicable

Gas: not applicable

**Explosive properties**

not determined

Lower explosion limits: 1,0 vol. %

Upper explosion limits: 7,0 vol. %

Ignition temperature: 500 °C

**Auto-ignition temperature**

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

not determined

Vapour pressure:  
 (at 20 °C) 6 hPa

Density (at 20 °C): 1,88 g/cm<sup>3</sup> ISO 2811

Water solubility: insoluble

**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic:  
 (at 20 °C) 1800 mPa·s

Vapour density: not determined

Evaporation rate: not determined



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 443 Zinkfarbe Fassware

Print date: 11.02.2015

Product code: 5063

Page 9 of 13

Solvent content: 31,6 %

#### 9.2. Other information

Solid content: 68,4 %

No information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable, Ignition hazard.

#### 10.2. Chemical stability

Decomposes in contact with water.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### ATEmix calculated

ATE (inhalative aerosol) 4,840 mg/l

##### Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1330-20-7	xylene				
	oral	LD50	4300 mg/kg	Rat	GESTIS
	dermal	LD50	>1700 mg/kg	Rabbit	GESTIS
	inhalative (4 h) vapour	LC50	21,7 mg/l	Rat	GESTIS
	inhalative aerosol	ATE	1,5 mg/l		
100-41-4	ethylbenzene				
	oral	LD50	3500 mg/kg	Rat	GESTIS
	dermal	LD50	15400 mg/kg	Rabbit	GESTIS
	inhalative (4 h) vapour	LC50	17,2 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
96-29-7	2-butanone oxime				
	dermal	ATE	1100 mg/kg		

##### Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

according to Regulation (EC) No 1907/2006

## DINITROL 443 Zinkfarbe Fassware

Print date: 11.02.2015

Product code: 5063

Page 10 of 13

### Further information

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

## SECTION 12: Ecological information

### 12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
96-29-7	2-butanone oxime					
	Acute crustacea toxicity	EC50	750 mg/l	48 h	Daphnia magna	

### 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.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1330-20-7	xylene	3
100-41-4	ethylbenzene	3,15
96-29-7	2-butanone oxime	0,63

#### BCF

CAS No	Chemical name	BCF	Species	Source
1330-20-7	xylene	25,9	Oncorhynchus mykiss (Rainbow trout)	

### 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

No information available.

### Further information

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

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

## 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

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances  
Classified as hazardous waste.

#### Waste disposal number of contaminated packaging

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 443 Zinkfarbe Fassware

Print date: 11.02.2015

Product code: 5063

Page 11 of 13

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

Remove according to the regulations.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint, ENVIRONMENTALLY HAZARDOUS  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 163 640E 650  
 Limited quantity: 5 L  
 Transport category: 3  
 Hazard No: 30  
 Tunnel restriction code: D/E

#### Other applicable information (land transport)

E1

#### Marine transport (IMDG)

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint (zinc powder - zinc dust (stabilized)), MARINE POLLUTANT  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Marine pollutant: yes  
 Special Provisions: 163, 223, 955  
 Limited quantity: 5 L  
 EmS: F-E, S-E

#### Other applicable information (marine transport)

E1

#### Air transport (ICAO)

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 443 Zinkfarbe Fassware

Print date: 11.02.2015

Product code: 5063

Page 12 of 13



Special Provisions:	A3 A72	
Limited quantity Passenger:	10 L	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

#### Other applicable information (air transport)

E1  
Passenger-LQ: Y344

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: zinc powder - zinc dust (stabilized)

#### 14.6. Special precautions for user

No information available.

#### 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

##### EU regulatory information

2004/42/EC (VOC): 31,6 % (594 g/l)

##### National regulatory information

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

Water contaminating class (D): 2 - water contaminating

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

#### 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)

10 Flammable.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 443 Zinkfarbe Fassware

Print date: 11.02.2015

Product code: 5063

Page 13 of 13

11	Highly flammable.
20	Harmful by inhalation.
20/21	Harmful by inhalation and in contact with skin.
21	Harmful in contact with skin.
38	Irritating to skin.
40	Limited evidence of a carcinogenic effect.
41	Risk of serious damage to eyes.
43	May cause sensitisation by skin contact.
50	Very toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains 2-butanone oxime. May produce an allergic reaction.

#### 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.)*