



**DINITROL 28**

Print date: 16.09.2015

Product code: 21613

Page 2 of 9

**2.3. Other hazards**

No information available.

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

| CAS No     | Chemical name   |              |                  | Quantity   |
|------------|---|--------------|------------------|------------|
|            | EC No   | Index No     | REACH No         |            |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP]     |              |                  |            |
| 64-17-5    | ethanol, ethyl alcohol  |              |                  | 25 -< 50 % |
|            | 200-578-6   | 603-002-00-5 | 01-2119457610-43 |            |
|            | Flam. Liq. 2; H225  |              |                  |            |
| 90622-57-4 | Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics                    |              |                  | 25 -< 50 % |
|            | 923-037-2   |              | 01-2119471991-29 |            |
|            | Flam. Liq. 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H304 H411 EUH066 |              |                  |            |

Full text of H and EUH statements: 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**
**After inhalation**

Provide fresh air.

**After contact with skin**

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

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately.

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

Caution if victim vomits: Risk of aspiration!

The following symptoms may occur: Nausea, Drowsiness, Headache.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**
**Suitable extinguishing media**

 alcohol resistant foam, Water mist, Carbon dioxide (CO<sub>2</sub>), Dry sand.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 28

Print date: 16.09.2015

Product code: 21613

Page 3 of 9

#### Unsuitable extinguishing media

Full water jet

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

Flammable. Vapours can form explosive mixtures with air.  
Hazardous decomposition products: Carbon dioxide.

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

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

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

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

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.

#### **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 discharges.  
Vapours can form explosive mixtures with air.

#### **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 locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

##### **Advice on storage compatibility**

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

##### **Further information on storage conditions**

Protect against direct sunlight.

#### **7.3. Specific end use(s)**

No information available.

### SECTION 8: Exposure controls/personal protection

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 28

Print date: 16.09.2015

Product code: 21613

Page 4 of 9

#### 8.1. Control parameters

##### Exposure limits (EH40)

| CAS No  | Substance | ppm  | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|-----------|------|-------------------|-----------|---------------|--------|
| 64-17-5 | Ethanol   | 1000 | 1920              |           | TWA (8 h)     | WEL    |
|         |           | -    | -                 |           | STEL (15 min) | WEL    |

##### DNEL/DMEL values

| CAS No                   | Substance              | Exposure route | Effect   | Value                  |
|--------------------------|------------------------|----------------|----------|------------------------|
| 64-17-5                  | ethanol, ethyl alcohol |                |          |                        |
| Worker DNEL, long-term   |                        | inhalation     | systemic | 950 mg/m <sup>3</sup>  |
| Worker DNEL, acute       |                        | inhalation     | local    | 1900 mg/m <sup>3</sup> |
| Worker DNEL, long-term   |                        | dermal         | systemic | 343 mg/kg bw/day       |
| Consumer DNEL, long-term |                        | inhalation     | systemic | 114 mg/m <sup>3</sup>  |
| Consumer DNEL, acute     |                        | inhalation     | local    | 950 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term |                        | dermal         | systemic | 206 mg/kg bw/day       |
| Consumer DNEL, long-term |                        | oral           | systemic | 87 mg/kg bw/day        |

##### PNEC values

| CAS No   | Substance              | Value      |
|--|------------------------|------------|
| 64-17-5  | ethanol, ethyl alcohol |            |
| Freshwater                                       |                        | 0,96 mg/l  |
| Marine water                                     |                        | 0,79 mg/l  |
| Freshwater sediment                              |                        | 3,6 mg/kg  |
| Marine sediment                                  |                        | 2,9 mg/kg  |
| Secondary poisoning                              |                        | 0,72 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                        | 580 mg/l   |
| Soil   |                        | 0,63 mg/kg |

#### 8.2. Exposure controls



##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

##### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Keep away from food, drink and animal feedingstuffs.

## DINITROL 28

Print date: 16.09.2015

Product code: 21613

Page 5 of 9

### Eye/face protection

Eye glasses with side protection (DIN EN 166)

### Hand protection

Tested protective gloves must be worn (DIN EN 374):

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

NBR (Nitrile rubber), Breakthrough time (maximum wearing time): 240 min.

Butyl caoutchouc (butyl rubber) Breakthrough time (maximum wearing time): 60 min.

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

Work in well-ventilated zones or use proper respiratory protection.

gas filtering equipment (EN 141), Filter material/medium: A

## SECTION 9: Physical and chemical properties

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

|                 |                |
|-----------------|----------------|
| Physical state: | liquid         |
| Colour:         | transparent    |
| Odour:          | characteristic |

#### Test method

|           |                |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

### Changes in the physical state

|                |                |
|----------------|----------------|
| Melting point: | not determined |
|----------------|----------------|

|  |       |
|--|-------|
| Initial boiling point and boiling range: | 78 °C |
|--|-------|

|              |                   |
|--------------|-------------------|
| Flash point: | < 23 °C ASTM D 56 |
|--------------|-------------------|

### Flammability

|        |                |
|--------|----------------|
| Solid: | not applicable |
|--------|----------------|

|      |                |
|------|----------------|
| Gas: | not applicable |
|------|----------------|

### Explosive properties

not determined

|                         |            |
|-------------------------|------------|
| Lower explosion limits: | 0,6 vol. % |
|-------------------------|------------|

|                         |             |
|-------------------------|-------------|
| Upper explosion limits: | 15,0 vol. % |
|-------------------------|-------------|

|                       |          |
|-----------------------|----------|
| Ignition temperature: | > 200 °C |
|-----------------------|----------|

### Auto-ignition temperature

|        |                |
|--------|----------------|
| Solid: | not applicable |
|--------|----------------|

|      |                |
|------|----------------|
| Gas: | not applicable |
|------|----------------|

|                            |                |
|----------------------------|----------------|
| Decomposition temperature: | not determined |
|----------------------------|----------------|

### Oxidizing properties

not determined

|                                |        |
|--------------------------------|--------|
| Vapour pressure:<br>(at 20 °C) | 58 hPa |
|--------------------------------|--------|

|          |                         |
|----------|-------------------------|
| Density: | 0,785 g/cm <sup>3</sup> |
|----------|-------------------------|

|                   |           |
|-------------------|-----------|
| Water solubility: | insoluble |
|-------------------|-----------|

**DINITROL 28**

Print date: 16.09.2015

Product code: 21613

Page 6 of 9

**Solubility in other solvents**

not determined

Partition coefficient:

not determined

Vapour density:

not determined

Evaporation rate:

not determined

Solvent content:

88,0 %

**9.2. Other information**

Solid content:

12,0 %

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**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**

Oxidising agent, Acid.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

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

| CAS No     | Chemical name                                    | Exposure routes | Method | Dose        | Species | Source |
|------------|--|-----------------|--------|-------------|---------|--------|
| 90622-57-4 | Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics | oral            | LD50   | >5000 mg/kg | Rat     |        |
|            |  | dermal          | LD50   | >5000 mg/kg | Rabbit  |        |

**Irritation and corrosivity**

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

**Sensitising effects**

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

**STOT-single exposure**

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

**Severe effects after repeated or prolonged exposure**

Repeated exposure may cause skin dryness or cracking.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 28

Print date: 16.09.2015

Product code: 21613

Page 7 of 9

#### Aspiration hazard

May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### 12.4. Mobility in soil

The product has not been tested.

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

not applicable

#### 12.6. Other adverse effects

No information available.

#### Further information

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 hazardous substances  
Classified as hazardous waste.

##### Waste disposal number of contaminated packaging

150111 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 hazardous substances  
Classified as hazardous waste.

##### Contaminated packaging

Remove according to the regulations.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

|  |   |
|--|---|
| <u>14.1. UN number:</u>                  | UN 1139                                     |
| <u>14.2. UN proper shipping name:</u>    | Coating solution, ENVIRONMENTALLY HAZARDOUS |
| <u>14.3. Transport hazard class(es):</u> | 3   |
| <u>14.4. Packing group:</u>              | II  |
| Hazard label:                            | 3   |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**DINITROL 28**

Print date: 16.09.2015

Product code: 21613

Page 8 of 9



|                          |      |
|--------------------------|------|
| Classification code:     | F1   |
| Special Provisions:      | 640D |
| Limited quantity:        | 5 L  |
| Excepted quantity:       | E2   |
| Transport category:      | 2    |
| Hazard No:               | 33   |
| Tunnel restriction code: | D/E  |

**Marine transport (IMDG)**

|  |   |
|--|---|
| <b>14.1. UN number:</b>                  | UN 1139   |
| <b>14.2. UN proper shipping name:</b>    | Coating solution (Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics), MARINE POLLUTANT |
| <b>14.3. Transport hazard class(es):</b> | 3   |
| <b>14.4. Packing group:</b>              | II  |
| Hazard label:                            | 3   |



|                     |          |
|---------------------|----------|
| Marine pollutant:   | yes      |
| Special Provisions: | -        |
| Limited quantity:   | 5 L      |
| Excepted quantity:  | E2       |
| EmS:                | F-E, S-E |

**Air transport (ICAO)**

|  |                  |
|--|------------------|
| <b>14.1. UN number:</b>                  | UN 1139          |
| <b>14.2. UN proper shipping name:</b>    | Coating solution |
| <b>14.3. Transport hazard class(es):</b> | 3                |
| <b>14.4. Packing group:</b>              | II               |
| Hazard label:                            | 3                |



|  |      |
|--|------|
| Special Provisions:                    | A3   |
| Limited quantity Passenger:            | 1 L  |
| Passenger LQ:                          | Y341 |
| Excepted quantity:                     | E2   |
| IATA-packing instructions - Passenger: | 353  |
| IATA-max. quantity - Passenger:        | 5 L  |
| IATA-packing instructions - Cargo:     | 364  |
| IATA-max. quantity - Cargo:            | 60 L |

**14.5. Environmental hazards**

|                            |     |
|----------------------------|-----|
| ENVIRONMENTALLY HAZARDOUS: | yes |
|----------------------------|-----|



|                             |  |
|-----------------------------|--|
| Danger releasing substance: | Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics |
|-----------------------------|--|



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### DINITROL 28

Print date: 16.09.2015

Product code: 21613

Page 9 of 9

#### 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): 88 % (691 g/l)  
Subcategory according to Directive 2004/42/EC: Special finishes - All types, VOC limit value: 840 g/l

##### Additional information

Observe in addition any national regulations!  
Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

##### 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 H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.

#### 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.)*