

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 1 of 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Bodyfiller/stopper

1.3. Details of the supplier of the safety data sheet

Company name:	DINOL GmbH	
Street:	Pyrmonter Strasse 76	
Place:	D-32676 Luegde	
Telephone:	+49 (0) 5281 9829 80	Telefax: +49 (0) 5281 9829 860
Responsible Department:	msds@dinol.com	

1.4. Emergency telephone number: Giftnotruf Berlin: +49 30 30686 790 (Consultation in German and English)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: Xn - Harmful, Xi - Irritant
R phrases:
Flammable.
Harmful by inhalation.
Irritating to eyes and skin.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Classification according to Directive 67/548/EEC or 1999/45/EC

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
Flammable liquid: Flam. Liq. 3
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Reproductive toxicity: Repr. 2
Specific target organ toxicity - repeated exposure: STOT RE 1
Hazard Statements:
Flammable liquid and vapour.
Causes serious eye irritation.
Causes skin irritation.
Suspected of damaging the unborn child.
Causes damage to organs (hearing organs) through prolonged or repeated exposure.

2.2. Label elements**Hazardous components which must be listed on the label**

styrene

Signal word:	Danger
Pictograms:	GHS02-GHS07-GHS08



Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 2 of 10

Hazard statements

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (hearing organs) through prolonged or repeated exposure.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapour/aerosol.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	This material and its container must be disposed of as hazardous waste.

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		
202-851-5	styrene	10 - < 15 %
100-42-5	Xn - Harmful, Xi - Irritant R10-20-36/37/38-48/20-65	
601-026-00-0	Flam. Liq. 3, Repr. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1, Asp. Tox. 1; H226 H361d H332 H315 H319 H335 H372 H304	
01-2119457861-32		

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

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

After inhalation

Provide fresh air. In case of irregular breathing or respiratory arrest provide artificial respiration. If unconscious place in recovery position and seek medical advice. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 3 of 10

easy to do. Continue rinsing. 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. Put victim at rest, cover with a blanket and keep warm.

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

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water fog.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Danger of serious damage to health by prolonged exposure. Do not inhale explosion and combustion gases. 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

Provide adequate ventilation.
Wear personal protection equipment.
Avoid contact with skin, eyes and clothes.
Avoid breathing dust/fume/gas/mist/vapours/spray.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.
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

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.
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 4 of 10

Take precautionary measures against static discharge.
Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Keep container dry.
Protect against direct sunlight.

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 ³	fibres/ml	Category	Origin
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
546-93-0	Magnesite, respirable dust	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
100-42-5	Styrene	100	430		TWA (8 h)	WEL
		250	1080		STEL (15 min)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
100-42-5	styrene			
Worker DNEL, long-term		inhalation	systemic	85 mg/m ³
Worker DNEL, acute		inhalation	systemic	289 mg/m ³
Worker DNEL, acute		inhalation	local	306 mg/m ³
Worker DNEL, long-term		dermal	systemic	406 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	10,2 mg/m ³
Consumer DNEL, acute		inhalation	systemic	174,25 mg/m ³
Consumer DNEL, acute		inhalation	local	182,75 mg/m ³
Consumer DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,1 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 5 of 10

PNEC values

CAS No	Substance	
	Environmental compartment	Value
100-42-5	styrene	
	Freshwater	0,028 mg/l
	Marine water	0,014 mg/l
	Freshwater sediment	0,614 mg/kg
	Marine sediment	0,307 mg/kg
	Micro organisms in sewage treatment plants (STP)	5,0 mg/l
	Soil	0,2 mg/kg

8.2. Exposure controls

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.
- NBR (Nitrile rubber), Breakthrough time (maximum wearing time): 30 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:	Paste
Colour:	yellow - brown
Odour:	characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: 140 °C

Flash point: 31 °C DIN 51755

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 6 of 10

Flammability

Solid: not applicable
Gas: not applicable

Explosive properties

not determined

Lower explosion limits: 1,2 vol. %
Upper explosion limits: 8,9 vol. %
Ignition temperature: 480 °C

Auto-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure: 6,7 hPa
(at 20 °C)Density (at 20 °C): 1,80 g/cm³ ISO 2811

Water solubility: insoluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: 110000 mPa·s
(at 20 °C)

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: <3 % (ADR/RID)

Solvent content: 13,40 %

9.2. Other information

Solid content: 86,60 %

No information available.

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

In case of warming: Danger of polymerisation

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide.

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 7 of 10

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
100-42-5	styrene				
	oral	LD50	2650 mg/kg	Rat	GESTIS
	dermal	LD50	>2000 mg/kg	Rat	
	inhalative vapour	LC50	11,8 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		

Further information

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

SECTION 12: Ecological information
12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
100-42-5	styrene					
	Acute fish toxicity	LC50	4,02 mg/l	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	4,7 mg/l	48 h	Daphnia magna (Big water flea)	

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
100-42-5	styrene	3,05

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.

SECTION 13: Disposal considerations
13.1. Waste treatment methods

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 8 of 10

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

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
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

Remove according to the regulations.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: UN 1866
14.2. UN proper shipping name: Resin solution
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



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

Other applicable information (land transport)

E1
No good of class 3 according to ADR/RID chapter 2.2.3.1.5

Marine transport (IMDG)

14.1. UN number: UN 1866
14.2. UN proper shipping name: Resin solution
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Special Provisions: 223, 955
Limited quantity: 5 L

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 9 of 10

EmS: F-E, S-E

Other applicable information (marine transport)

E1

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

Air transport (ICAO)**14.1. UN number:** UN 1866**14.2. UN proper shipping name:** Resin solution**14.3. Transport hazard class(es):** 3**14.4. Packing group:** III

Hazard label: 3



Special Provisions: A3

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: no

14.6. Special precautions for user

Warning: Flammable liquids

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): 13,40 % (250 g/l)

Additional information

Observe in addition any national regulations!

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

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 8405 SPOT REPAIR 2K TOP PUTTY

Print date: 23.02.2015

Product code: 5330

Page 10 of 10

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. |
| 20 | Harmful by inhalation. |
| 36/37/38 | Irritating to eyes, respiratory system and skin. |
| 48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| 65 | Harmful: may cause lung damage if swallowed. |

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

- | | |
|-------|--|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs (hearing organs) through prolonged or repeated exposure. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

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.)