



## SAFETY DATA SHEET according to regulation EU1907/2006 (REACH)

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BORI thin-layered stain

Revision No.:6  
Revision Date:20/01/12

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product	BORI thin-layered stain
Item code(s):	404301, 404302, 404303, 404305, 404307, 404308, 404309, 404310, 404311, 404312, 418679, 404304, 404315, 419379, , 419985, 419986 Note: The following material codes are codes, without packaging, safety data sheet applies to all packages of those codes (the last two code digits on the label indicate packaging).

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use, scope:	Products for consumer consumption stains The product is used in consumer and professional use.
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#### 1.3. Details of the supplier of the safety data sheet

Producer	HELIOS Tovarna barv, lakov in umetnih smol Količevo d.o.o. Količevo 65, 1230 DOMŽALE, SLOVENIJA tel. +386 1 722 40 00, fax. +386 1 722 43 10
Responsible person	Matija Podobnik, e-mail: matija.podobnik@helios.si

#### 1.4. Emergency telephone number

Phone	In case of health hazard, consult a private or a doctor on duty. For additional information please call phone number +386 (1) 722 4383 HSE dept.).
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### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

Classification (EU 1272/2008)



Signal Word	Warning
Categories of danger	Hazard phrases (H-phrases)
Flammable Liquid 3	H226 - Flammable liquid and vapour. EUH066 - Repeated exposure may cause skin dryness or cracking.

### Classification (EU 1999/45)

Health	Repeated exposure may cause skin dryness or cracking.
Environment	The product does not mean special danger for the environment, if the recommendations for the removal from the Paragraph 13 are taken into consideration.
Physical-chemical	Flammable.

### 2.2. Label elements

Health	Environment	Physical-chemical
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Contains:	2-ethylhexanoic acid, cobalt salt; 2-butanone oxime May produce an allergic reaction.
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- R 10 Flammable.  
R 66 Repeated exposure may cause skin dryness or cracking.
- S 2 Keep out of reach of children.  
S 16 Keep away from sources of ignition - No smoking.  
S 37 Wear suitable gloves.  
S 46 If swallowed, seek medical advice immediately and show this container or label.  
S 51 Use only in well-ventilated areas.

## 3. Composition/information on ingredients

Chemical composition:	Paint based on alkyd binder and pigments in organic solvents.
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Chemical Name	Concentration [weight %]	CAS EINECS EU INDEX	Classification (EU 1999/45)	Classification (REGULATION (EC) No. 1272/2008)
naphtha (petroleum), hydrotreated heavy	50-100	64742-48-9 265-150-3 649-327-00-6	R66 Xn; R65	Asp.Tox.1; H304
n-butyl acetate	1.0-2.5	123-86-4 204-658-1 607-025-00-1	R10 R66 R67	STOT SE 3; H335,H336 Flam. Liq. 3; H226
2-ethylhexanoic acid, cobalt salt	<0.5	13586-82-8 237-015-9 -	Xn; R22 Xi; R38 Xi; R43 N; R51/53	Acute Tox. 4; H302 Aquatic Chronic 2; H411 Skin Irrit. 2; H315 Skin Sens. 1; H317
2-butanone oxime	<0.5	96-29-7 202-496-6 616-014-00-0	Xn; R21 Xn; R40 Xi; R41 Xi; R43	Acute Tox. 4; H312 Carc. 2; H351 Skin Sens. 1; H317 Eye Dam. 1; H318

## 4. First aid measures

### 4.1. Description of first aid measures

In case of excessive inhalation:	If there are any symptoms transfer the victim to clean air.
In case of contact with skin:	Remove contaminated clothing. Wash skin with soap and water. Do not use organic solvents or thinners.
In case of contact with eyes:	Flush eyes with water to remove product residue.
In case of ingestion:	Do not eat. Rinse mouth with water. Do not induce vomiting.

## 5. Firefighting measures

### 5.1. Extinguishing media

Fire Extinguishing Media:	SUITABLE: Foam, powder, carbon dioxide, inert gas or INERGEN FM 200 (started phase fire fighting), water fog. UNSUITABLE: Water jet, unless USED ONLY for water mist to cool containers with flammable products. Remove all possible sources of ignition: open flame, lit cigarette, sparking of tools and equipment. Close packagings with product.
Unsuitable extinguishing media:	Open water jet

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

Specific methods of extinguishing fire:	Extinguish fire in wind direction. Cool down vessels with product, which do not burn with dispersed water, prevent leakage of the product and place them in a safety place. The possibility of formation man harmful gases and thick smoke during the fire. The use of protective mask with filter A is mandatory.
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### 5.3. Advice for firefighters

Special equipment to protect firefighters:	Independent fire extinguisher on compressed air, a full fire-fighting equipment to protect the body.
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## 6. Accidental release measures

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

Personal precautions:	Remove possible sources of ignition (flame, lit cigarette, sparking etc.). Protect respiratory system against inhalation of vapours. Provide good ventilation.
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### 6.2. Environmental precautions

Environmental precautions:	Prevent leakage into water, water dams, cellars, caves or sewage system.
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### 6.3. Methods and material for containment and cleaning up

Methods of cleaning up:	Absorb the outflown product and mix it with soil, sand or other absorptive materials for liquids. Leave waste to the authorized waste collectors.
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## 7. Handling and storage

### 7.1. Precautions for safe handling

Personal precautions:	At the use product vapours may produce flammable/explosive mixtures of vapours and air. During the pumping static electrification may occur. Emptying of static electrification, which could cause fire. At the decanting of larger quantities assure conductivity with binding and earthing of complete equipment. Prevent contact with hot objects, sparkles, flame and sources of ignition.
Advice on safe handling:	Do not smoke, drink or eat while handling the product. Do not breathe vapors, avoid contact with skin and eyes. At work wear cotton overalls or coveralls, nitrile rubber gloves and safety glasses with side shields.

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

Technical measures and conditions:	SUITABLE: Store in tightly closed vessels in a cool and ventilated room. Prevent the formation of static electrification. UNSUITABLE: Storage in the room together with chemicals (oxidants, acids) may cause fire. In the warehouse there should be no tools or machines, which are the source of sparking. Store in an upright position.
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### 7.3. Specific end use(s)

Packaging materials:	RECOMMENDED: Use a metal-protected packaging. UNSUITABLE: long-term storage can not use butyl, nitrile and natural rubbers. Because of the possibility of forming explosive atmosphere (vapours), DO NOT CUT empty packaging with sparking tools.
Storage Class:	3A (German VCI Guideline)

## 8. Exposure controls/personal protection

### 8.1. Control parameters

The prescribed of threshold limit value (TLV) for occupational exposure to hazardous substances in the atmosphere post the Regulation on the safety of employees from risks against chemical substance exposure at work:

Chemical Name	TLV (mg/m <sup>3</sup> )
naphtha (petroleum), hydrotreated heavy	1200
n-butyl acetate	480

### 8.2. Exposure controls

Respiratory protection:	When used in confined spaces, prolonged work, wear protective mask for the whole face with filter "A". In case that the oxygen concentration in the air of work room falls under 17 %, use independent respirator with an open circle on the compressed air.
Hand protection:	At several contacts with the product use gloves made of nitril rubber with thickness 0,40 mm, in contact with drops of product (minor contacts) the gloves made of nitril rubber of thickness 0,11 mm.
Eye protection:	At the low concentrations in the air wear protective goggles, at high concentrations the protective mask for the whole face.
Skin protection:	In normal conditions wear clothes made of cotton and suitable footwear.

	In case the possibility of outflow is high, use the clothes and footwear resistant to chemicals (PVC, rubber).
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## 9. Physical and chemical properties

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

Form:	Liquid
Colour:	Different colour shades
Odour:	Specific for organic solvents
pH:	N.A.
Boiling point:	193 °C; naphtha (petroleum), hydrotreated heavy
Flash point( °C):	51
Ignition point:	270 °C; naphtha (petroleum), hydrotreated heavy
Density (kg/l):	0.85 ISO 2811
Viscosity:	DIN2 20°C 65 - 75 s
Explosion limits lower (vol. %):	0.70
Explosion limits upper (vol.%):	6.00
Vapour pressure (Pa/20°C):	81 naphtha (petroleum), hydrotreated heavy
Contents of dry substance (wt. %):	25-35
Solubility in water:	Insoluble

## 10. Stability and reactivity

### 10.1. Reactivity

Reactivity:	Stable - when used in accordance with the instructions.
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### 10.2. Chemical stability

Stability:	The product is stable under conditions in accordance with the instructions and proper storage.
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### 10.3. Possibility of hazardous reactions

Hazardous conditions:	The presence of open flame or hazardous materials. Avoid contact of product with heat, sparks, flames and other ignition sources.
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### 10.4. Conditions to avoid

Unwanted conditions:	No data available
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### 10.5. Incompatible materials

Incompatibility:	The product is non-reactive and compatible with majority of substances, except with extreme oxidants. Keep the product in the original packaging. Do not mix with other products.
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## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity and evaluation of acute toxicity:

ORAL	No data available	
DERMAL	No data available	
INHALATIONAL	No data available	

#### Acute effects:

##### Irritation:

Skin:	Yes.
Eyes:	Yes.
Inhalation routes:	Yes, at more sensitive individuals.

##### Hypersensitivity:

Skin:	Possible.
Eyes:	Possible.

#### Chronic effects:

Effects of repeated exposure:	None data known.
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## 12. Ecological information

### 12.1. Toxicity

Ecotoxicity - Data on components:	Product (based on the data component) is not classified as dangerous for the environment.
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Chemical Name	CAS No.	Ecotoxicity conc.
naphtha (petroleum), hydrotreated heavy	64742-48-9	Aquatic LC50 (96h) fish > 1000.000 mg/l Aquatic LC50 Daphnia > 1000.000 mg/l
n-butyl acetate	123-86-4	Aquatic LC50 (96h) fish = 184.000 mg/l Aquatic LC50 (96h) Daphnia = 18.000 mg/l Aquatic LC50 bacteriae > 1000.000 mg/l

### 12.2. Persistence and degradability

Biodegradation	No data available
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### 12.3. Bioaccumulative potential

Bioconcentration:	No data available
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### 12.4. Mobility in soil

Mobility	No data
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### 12.5. Results of PBT and vPvB assessment

PBT and vPvB:	No data available
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### 12.6. Other adverse effects



## 13. Disposal considerations

### 13.1. Waste treatment methods


Product:	<p>The product leftovers , waste and useless packaging should be handled in accordance with the Regulations on processing of special and dangerous waste (dir. 91/689/EEC, dir. 2000/532/EC).</p> <p>Waste classification number: 08 01 11 Waste hazardeous characteristic: H3-B</p> <p>The recommended dgradation method is the use of the controlled high temperature incineration or disposal to the deposits for dangerous substances.</p>
Packaging:	<p>Empty the packaging as thoroughly as possible. The thoroughly emptied packaging (dry) may be disposed of as not dangerous waste according to material type.</p>

## 14. Transport information

### Transport by road/by railway - ADR/RID:

14.3. Transport hazard class(es)	3
14.4. Packing group	III
Label:	
Hazard number:	30
Tunnel restriction code:	(D/E)
Limited quantities:	 <p>packages: inner: =&lt; 5 units; outer: =&lt; 30 units</p>

**Transport by sea – IMDG:**

14.3. Transport hazard class(es)	3
14.4. Packing group	III
Label:	
Flash point( °C):	51
Instructions for emergency EmS:	F-E, S-E

**Air transport ( IATA ):**

14.3. Transport hazard class(es)	3
14.4. Packing group	III
Label:	

## 15. Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This Safety Data Sheet has been prepared in accordance with a comprehensive chemicals legislation - REACH Regulation on chemicals and the Regulation for classification, labeling and packaging (CLP/GHS).

## 16. Other information

**The importance of R and H phrases from Chapter 3:**

R 66	Repeated exposure may cause skin dryness or cracking.
R 65	Harmful: may cause lung damage if swallowed.
R 10	Flammable.
R 67	Vapours may cause drowsiness and dizziness.
R 22	Harmful if swallowed.
R 38	Irritating to skin.
R 43	May cause sensitisation by skin contact.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 21	Harmful in contact with skin.
R 40	Limited evidence of a carcinogenic effect.
R 41	Risk of serious damage to eyes.

The information in this Safety Data Sheet refer only to the mentioned product in the form as delivered and it is not necessary valid when this material is used in the combination with other materials or in the processes, which are not foreseen in the instructions for use. This information is correct to the supplier's best of knowledge and reliable at the time of the publication of this Safety data sheet. It is the user's responsibility to ascertain the suitability of the product for a specific use.

The data in this Safety data sheet do not prove the quality of the product, they are only the instructions for the safe use of the product with the user.

In case of non-compliance with the measures or incorrect use of the product , stated in the Safety data sheet we do not accept any responsibility for the consequences.