

Date of issue: 8/3/2006

Date of revision: 18/1/2007

Date of print: 14.04.2008

**1. IDENTIFICATION OF THE SUBSTANCE/AGENT AND OF THE COMPANY/UNDERTAKING**
**1.1 Identification of Substance or Agent:** EXLAK

Original name of the agent: EXLAK

**1.2 Use of Substance or Agent:** Synthetic wood varnish.

**1.3 Identification of Company or Undertaking**








Company Name: COLOR Company, s.r.o.  
 Place of Business (Seat): Štúrova 1504, 018 41 Dubnica nad Váhom, Slovenská republika  
 Company Registration No.: 36 307 262  
 Telephone: 042/442 89 89  
 Fax: 042/462 55 00


**1.4 Emergency Telephone:** tel.: 02/5477 4166, fax: 02/5477 4605

(Toxikologické informačné centrum, Klinika pracovného lekárstva a toxikológie FNŠP  
 akad. L. Dédera, Limbová 5, 833 05 Bratislava) („Toxicological Information Centre,  
 Occupational Medicine and Toxicology Clinic of Teaching Hospital with Health  
 Centre of acad. L. Déder“)

**2. COMPOSITION/ INFORMATION ON INGREDIENTS**
**2.1 Chemical Characteristics:** Compound of synthetic organic substances and alkyd resin.

**2.2 Composition of Agent:** The agent contains chemical substances which are classified as dangerous according to Act on chemical substances and chemical agents. The agent contains < 51% alkyd resin.

Chemical Name	Concentration or Extent in %	Hazard Symbol	EC (EINECS, ELINCS, NLP)	CAS Number	R-phrases
petrol (petroleum), hydrogenation desulphurised, petrol (petroleum), (benzene content < 0,1%)	≤ 17	 Xn harmful  N Dangerous for the environment	265-185-4	64742-82-1	10, 51/53, 65, 66, 67
petrol (petroleum), hydrogenation desulphurised, heavy	≤ 27,72	 F+ Extremely flammable  T toxic  Xn harmful  N Dangerous for the environment	265-185-4	64742-82-1	12, 36/38, 45, 51/53, 65, 67
heavy petrol (petroleum), hydrogenated heavy	< 2	 Xn harmful	265-150-3	64742-48-9	65, 66

For complete wording of R-phrases see the Section 16.

**3. HAZARD IDENTIFICATION**
**3.1 The Most Harmful Effects on Human Health**

The agent is classified as dangerous according to Act on chemical substances and chemical agents.

R 10 – Flammable, R 66 - Repeated exposure may cause skin dryness or cracking, R 67 - Vapours may cause drowsiness and dizziness. See the Section 11 and 15.

**3.2 The Most Harmful Effects on Environment**

Date of issue: 8/3/2006

Date of revision: 18/1/2007

Date of print: 14.04.2008

N – Dangerous for the environment. R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow leakage into sewage, surface water, groundwater and soil. See the Section 12.

## 4. FIRST AID MEASURES

### 4.1 General Instructions

Remove affected clothing. Secure medical help and provide this sheet or label of agent in case of any doubts or occurrence of any symptoms. Bear in mind the protection of your own health.

### 4.2 Exposure by Inhalation

The victim should be escorted to fresh air. In case of unconsciousness, the person should be positioned and transported in recovery position. Call the doctor immediately or according to the symptoms of exposure.

### 4.3 Exposure by Skin Contact

Wash the affected skin with water and soap immediately, rinse thoroughly and apply the protective cream if appropriate. Do not use any solvents. Remove affected clothing. In case of skin irritation or other symptoms, consult specialist.

### 4.4 Exposure by Eye Contact

Open the eye lids, remove the contact lenses if necessary and rinse the eyes with water thoroughly during 15 minutes. The next steps should be immediately consulted with ophthalmologist.

### 4.5 Exposure by Ingestion

Rinse mouth thoroughly with stream of water and do not induce vomiting. Keep the affected person warm and at rest. Call the doctor immediately.

## 5. FIREFIGHTING MEASURES

### 5.1 Suitable Extinguishing Media

Alcohol-resistant foam, extinguishing powder, carbon dioxide, water mist. As suitable for surrounding fire.

### 5.2 Extinguishing media which must not be used for safety reasons

Strong water stream.

### 5.3 Specific exposure hazards resulting from the substance or agent itself, combustion products, resulting gases

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and thick black smoke may be produced during the combustion. An inhalation of hazardous decomposition products of the combustion may result in a damage of health.

### 5.4 Special protective equipment for firefighters and equipment for firefighting crews

Use suitable protective self-contained breathing apparatus and chemical protective outfit if appropriate. Protective measures should be chosen according to extent of fire.

### 5.5 Supplement Information

The agents in closed packagings which are in proximity to fire are to be cooled by water. If possible, remove the agents in undamaged packagings from the danger zone. The contaminated water used for firefighting is to be temporarily stored in isolation, do not drain it into sewage. The water used for firefighting or used fire extinguishers with the combustion residue are to be disposed of according to relevant regulations (the Waste Act, see the Section 16.4).

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions

Respect the instructions stated in the Sections 7 and 8. Do not allow contact with eyes, skin and clothing. Do not inhale vapours. Ventilate area sufficiently. Prevent formation of sparks. In case of vapour formation, use breathing apparatus. Authorised personnel only.

### 6.2 Environmental Precautions

Prevent further release. Do not allow the agent to enter sewage system, surface water, groundwater and soil. In case of contamination of rivers, lakes, or water system act in accordance with local regulations (Act on water, see the Section 16.4) and contact competent authorities (competent Sewage System Management, Watercourse Management, Slovak Inspectorate of the Environment).

### 6.3 Methods for Cleaning up (Remediation)

Prevent formation of sparks. The released agent is to be sprinkled by suitable non-flammable absorbent material, e.g. universal sorbent, sand, vapex, perlite, fine-grained gravel and placed in a suitable packaging. The subsequent procedure of disposal is conforming to the regulations stated in the Section 13. Pay attention to the amounts in the Section 8. The contaminated area and used equipment should be washed thoroughly by a suitable abstergent, do not use diluents. In case of ground and surface water contamination, the cleaning up should be carried out exclusively in collaboration with Fire and Rescue Corps and Slovak Inspectorate of the Environment.

## 7. HANDLING AND STORAGE

### 7.1 Handling

It is necessary to read the contents of the Sections 3, 6, 8 and 11 before use. Respect legal preventive and safety regulations for handling the chemical substances. Respect the instructions and directions for use printed on the label of product packaging.

Date of issue: 8/3/2006

Date of revision: 18/1/2007

Date of print: 14.04.2008

Do not eat, drink or smoke while manipulating with the agent. Wash your hands and take off the contaminated work clothes before taking a break or after manipulation with the agent. Store the work clothes in isolation.

**7.2 Storage**

The agent is to be stored in tightly closed original packagings only. Do not allow access to the unauthorised persons. Pay attention to the instructions on the label of product. Protect from freeze. Keep away from food, drink and animal feed-stuffs.

**7.3 Specific Use**

The use of agent is defined by the manufacturer in the directions for use printed on the label of packaging or in enclosed documents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Figures of Exposure Limits**

Chemical Name	Concentration or Extent in %	ES (EINECS, ELINCS, NLP)	NPHV Average (mg/m <sup>3</sup> )	NPHV Threshold (mg/m <sup>3</sup> )
petrol (petroleum), hydrogenation desulphurised, petrol (petroleum), (benzene content < 0,1%)	≤ 17	265-185-4	350 (podľa nemeckej MAK hodnoty)	-

- NPHV – maximum permissible exposure value

Chemical Name	Concentration or Extent in %	ES (EINECS, ELINCS, NLP)	BMH Permissible Value (mg/l)	Examined Material
-	-	-	-	-

BMH – biological boundary value

**8.2 Workplace Exposure Controls**

**8.2.1 Respiratory apparatus protection:** In case of an insufficient ventilation and the excess of permitted exposure limits use a suitable breathing mask with the filter of type AX.

**8.2.2 Hands protection:** Wear solvent-resistant protective gloves, e.g. made of nitrile rubber material (EN 374).

**8.2.3 Eyes protection:** Use the tight adjacent protective glasses equipped with the side protection (EN 166).

**8.2.4 Skin protection:** Use protective clothing with long sleeves eventually the safety protective shoes (EN 344).

**8.3 Environmental Exposure Controls**

Prevent release of concentrated agent into the soil, sewage system and water. The residue of agent, used packagings and liquid are to be disposed of according to the instructions in the Section 13.

**9. PHYSICAL AND CHEMICAL PROPERTIES**
**9.1 General Information**

Physical State :	Liquid
Colour (when supplied):	Pale blue to clear
Odour or Aroma:	by solvents

**9.2 Important Information**

pH Value (at 20°C):	Information is not available
Boiling Point:	°C
Flash Point (STN 67 3015):	°C
Flammability:	flammable liquid of the II. class
Upper Explosion Limit:	Information is not available
Lower Explosion Limit:	Information is not available
Oxidation Properties:	Information is not available
Vapour Pressure (at 20°C):	Information is not available
Density: (ISO 2811):	0,889 g/cm <sup>3</sup>
Solubility (at 20°C):	
– in Water	Information is not available

**– in Fat (solvent – oil)**

Information is not available

**Coefficient of n-octanol/water Distribution:**

Information is not available

**Viscosity kinematic:**

mm<sup>2</sup>.s

**Viscosity dynamic (pri 23°C ISO 3219):**

mPa.s

**Vapour pressure (air = 1):**

Information is not available

**Evaporation rate:**

Information is not available

**9.3 Other information**
**VOC of agent:**

500 g.l<sup>-1</sup>

**VOC CH:**

Information is not available

**Auto-Ignition Temperature:**

Information is not available

**Combustion Encouraging Properties**

Date of issue: 8/3/2006

Date of revision: 18/1/2007

Date of print: 14.04.2008

## 10. STABILITY AND REACTIVITY

### 10.1 Stability Conditions

The agent is stable when the stipulated regulations of storage and handling – protect from freeze are followed (see Section 7).

### 10.2 Materials to Avoid

None determined.

### 10.3 Hazardous Decomposition Products

No decomposition when handling in accordance with the regulations. Hazardous decomposition products may be generated during the combustion of packaging. See Section 5.3.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Dangerous health effects resulting from substance or agent exposure

Acute toxicity of agent component	petrol (petroleum), hydrogenation desulphurised, petrol (petroleum)	heavy petrol (petroleum), hydrogenated heavy		
LD <sub>50</sub> , oral, rat:	>5000 mg/kg	>15000 mg/kg		
LC <sub>50</sub> , inhalation, rat, for aerosols or particles per 4 hrs	Not specified	-		
LC <sub>50</sub> , inhalation, rat, for gases and vapours per 4 hrs	Not specified	> 12 mg/l (6 h)		
LD <sub>50</sub> , dermal, rat or rabbit:	>3160 mg/kg	> 3160 mg/kg		

### 11.2 Known long-term and immediate effects, chronic effects resulting from short-term and long-term exposure

- 11.2.1 Sensitisation:** Components of the preparation have a sensitizing effect (fatty acids C6-C19 branched, cobalt salts and butane-2-one oxime).
- 11.2.2 Narcotic Effects:** Component of agent can have narcotic effects.
- 11.2.3 Carcinogenicity:** Not specified for the agent. Component of agent have carcinogenic effects. (butane-2-one oxime) - carcinogene of the cat. 3
- 11.2.4 Mutagenicity:** Not stated for the agent. The agent components do not have a teratogenic effect.
- 11.2.5 Reproductive Toxicity:** Not specified for the agent. Components of agent do not have any teratogenic effects.
- 11.2.6 Exposure by Inhalation:** The vapours have a sensitizing and narcotic effect. Coordination and response time can be influenced. It can have a harmful effect.
- 11.2.7 Exposure by Ingestion:** The smallest amount can cause heavy health disorders.
- 11.2.8 Exposure by Skin Contact:** It causes skin irritation.
- 11.2.9 Exposure by Eye Contact:** It causes eyes irritation.

### 11.3 Other Information:

Agent was classified according to assessment of dangerous properties of agent on the basis of physico-chemical characteristics dangerous for health and environment in accordance with the Regulation of Ministry of Economy of Slovak Republic No.2/2002 enforcing the Act No.163/2001 Coll. on chemical substances and chemical agents.

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Ecotoxicity of Agent Component	heavy petrol (petroleum), hydrogenated heavy				
LC <sub>50</sub> (96 hrs, fish):	2200 mg/l				
EC <sub>50</sub> (48 hrs, daphnia):	2,6 mg/l (96h)				
IC <sub>50</sub> (72 hrs, algae):	-				

### 12.2 Mobility

Do not allow the agent to leak into rain water, surface and groundwater water and soil.

### 12.3 Persistence and Degradability

Information is not available.

### 12.4 Bioaccumulative Potential

Nie sú známe žiadne informácie.

Date of issue: 8/3/2006

Date of revision: 18/1/2007

Date of print: 14.04.2008

**12.5 Other Adverse Effects**

Hazardous to the environment. Poisonous to aquatic organisms; it may cause long-term effects in the aqueous component of the environment.

**13. DISPOSAL CONSIDERATIONS**
**13.1 Safe handling of residues or waste resulting from supposed use**

Saturated cleaning rag, paper or other organic material must be gathered and disposed under control. Empty the covers without residues. Evaluate/dispose the dangerous waste according to the local legislation in corresponding facilities.

**13.2 Classification of agent and its packaging**

	Catalogue No.	Name of Waste Type	Classification of Waste	Group of Waste	Method of Evaluation/Disposal
<b>Agent</b>	08 01 11	Waste colours and varnishes containing organic diluents or other dangerous substances	Dangerous waste	Y12 wastes from the production, preparation and paint usage	R1 used mainly as a fuel or for energy gaining in another way
<b>Polluted cover</b>	15 01 10	Covers containing residues of the dangerous substances or that are contaminated with dangerous substances	Dangerous waste	Y12 wastes from the production, preparation and paint usage	D1 deposition into the soil or on the surface of the soil (e.g. waste dump)
<b>Polluted rags</b>	15 02 02	Absorbents, filter materials including oil filters not specified otherwise, cleaning rags, protective clothing contaminated with dangerous substances	Dangerous waste	Y12 wastes from the production, preparation and paint usage	R1 used mainly as a fuel or for energy gaining in another way

**13.3 Legal Regulations**




Classification of waste was performed according to Regulation of Ministry of Environment of the Slovak Republic – waste catalogue (see Section 16.4). Specified catalogue numbers of wastes are recommended according to a probable utilisation of this agent. On the basis of special utilisation and given information of evaluation/disposal of wastes by user, other catalogue numbers of waste can be used under certain circumstances.

It is necessary to submit the specified waste to the organisation which disposes of adequate authorisations in accordance with the Waste Act (see the Section 16.4, e.g. authorisation for the operation of facility for evaluation/disposal of waste).

**14. TRANSPORT INFORMATION**
**14.1 Special Preventive Measures for Transport**

The agent is not classified as dangerous according to the transport regulations.

**14.2 Dopravná klasifikácia pre jednotlivé druhy dopravy**

	Land transport, road/rail: ADR/RID	Marine transport: IMO/ IMDG	Air transport: ICAO/IATA
<b>UN Number</b>	1866	1866	1866
<b>Shipping Name and Description</b>	RESIN SOLUTION, inflammable	RESIN SOLUTION, inflammable	RESIN SOLUTION, inflammable
<b>Class</b>	3	3	3
<b>Classification Code</b>	F1		
<b>Packing Group</b>	III	III	III
<b>Safety Symbols</b>			
<b>Special Conditions</b>	640 E		
<b>Limited Quantities LQ</b>	LQ 7		
<b>LQ Marking</b>	 or 		
<b>Packing Instructions</b>	P001, IBC 03		
<b>Transport Category</b>	3		
<b>Hazard Identification Number</b>	30		
<b>Sea Polluting Substance</b>		yes	

Date of issue: 8/3/2006

Date of revision: 18/1/2007

Date of print: 14.04.2008


EmS

F-E, S-E

## 15. REGULATORY INFORMATION

### 15.1 Information Printed on the Packaging of Substance or Agent

#### Hazard Symbols:

<div style="text-align: center;">N</div>  <div style="text-align: center;">nebezpečný pre životné prostredie</div>	-	-
---	---	---

#### Dangerous chemical substances in agent and EC number

-	-
-	-
-	-
-	-
-	-
-	-

Contains fatty acids C6-C19 branched, cobalt salts and butane-2-one oxime. It may cause allergic reaction. Use in accordance with the product specification. Dispose of in compliance with the Waste Act as a hazardous waste. Deliver the empty packaging to the collection point. A Material Safety Data Sheet is available to professional users.

**Provision of child-resistant fastening on the packaging according to § 26 Subsection 7 Act No. 163/2001 Coll. as amended and STN EN ISO 8317 or STN EN ISO 862:**

It does not have to be applied.

**Tactile warning of danger for the sake of persons with impaired vision and the blind according to § 26 Subsection 7 Act No. 163/2001 Coll. as amended and STN EN ISO 11683:**

It does not have to be applied.

#### R-phrases

10	Inflammable
51/53	Harmful for the water organisms, can cause long-term unfavourable effects in the water part of environment
66	Harmful, when consumed, it can cause a lungs defect
67	The vapours can cause somnolence and gidiness
-	-
-	-

#### S-phrases

2	Keep out of the reach of children
16	Uchovávať mimo dosahu zdrojov zapálenia – Zákaz fajčenia
24/25	Avoid contact with the skin
45	In case of an accident or if you do not feel well, seek medical advice immediately (if possible show the substance or agent designation)
51	Use at the well ventilated place only
61	Avoid any release into the environment. Become familiar with special instructions and safety data sheet

## 16. OTHER INFORMATION

### 16.1 Complete Wording of R-phrases Mentioned in Section 2 and 3

10	Inflammable
12	Very inflammable
36/38	It irritates the eyes and skin
45	May cause cancer
51/53	Poisonous for the water organisms, can cause long-term unfavourable effects in the water part of environment
65	Harmful, when consumed, it can cause a lungs defect
66	Repeated exposure can cause the skin exsiccation and crazing

Date of issue: 8/3/2006

Date of revision: 18/1/2007

Date of print: 14.04.2008

67	Pary môžu spôsobiť ospalosť a závrat
----	--------------------------------------

**16.2 Complete Wording of S-phrases**

2	Keep out of the reach of children
16	Uchovávať mimo dosahu zdrojov zapálenia – Zákaz fajčenia
24/25	Avoid contact with the skin
45	In case of an accident or if you do not feel well, seek medical advice immediately (if possible show the substance or agent designation)
51	Use at the well ventilated place only
61	Avoid any release into the environment. Become familiar with special instructions and safety data sheet

**16.3 Training Manual**

The workers who use the product regularly and new workers must attend regular trainings or introductory training on hazards and prevention and how to work without putting oneself or other in danger. Content and periodicity of training will be determined by the employer according to the Act on Safety and Health Protection at Work (see Section 16.4).

**16.4 Quoted Regulations:**

Act No.163/2001 Coll. on Chemical Substances and Chemical Agents as amended.

Regulation of Ministry of Economy of the Slovak Republic No. 515/2001 Coll. on details about the contents of Material Safety Data Sheet.

Regulation of Ministry of Economy of the Slovak Republic No.2/2002 enforcing the Act No.163/2001 Coll. on chemical substances and chemical agents as amended.

Government regulation of the Slovak Republic No. 355/2006 Coll. on protection of employees from hazards related to exposition to chemical factors at work .

Act No.223/2001 Coll. on Wastes as amended.

Regulation of Ministry of Environment of the Slovak Republic No. 284/2001 Coll. enacting Waste Catalogue as amended.

Act No. 364/2004 Coll. on water and its executive regulation No.100/2005 Coll. as amended.

Act No.124/2006 Coll. on Safety and Health Protection at Work.

Regulation of Ministry of Interior of the Slovak Republic No.96/2004 Coll. stipulating the principles for fire safety for handling and storage of flammable liquids, heavy heating oils and vegetable and animal fats and oils.

ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID - International Rule for Transport of Dangerous Substances by Railway.

IATA/ICAO Code – International Rule for Transport of Dangerous Substances by Air.

IMDG Code - International Rule for Maritime Transport of Dangerous Substances.

**16.5 Legend**

Classification of agent was accomplished according to the Regulation of Ministry of Economy of the Slovak Republic No.2/2002 enforcing the Act No.163/2001 Coll. on chemical substances and chemical agents. The data provided by the manufacturer or importer of individual agent components stated in the Material Safety Data Sheet were used as a source.

Ecotoxicological and toxicological information were obtained from the ESIS system (European Chemical Substances Information System), specifically from the database IUCLID (International Uniform Chemical Information Data Base). The database provides the characteristics of substances that are classified in Annexe I of Directive 67/548/EEC, but also the characteristics of substances that are not classified.

The chemical database of company Merk spol. s r.o. was also used for supplementary information.

The Material Safety Data Sheet furnishes the necessary information for providing safety and health protection at work as well as the protection of environment. The given data conform to present state of knowledge and experience and comply with legal regulations in force. The data cannot be regarded as a guarantee of suitability and usability of product for specific application.

The Material Safety Data Sheet is a property of the natural person or legal entity quoted in the Section 1.3 and is protected by copyright. Copying, circulation or sale without the consent of a proprietor is illegal.

Material safety data sheets of input materials of chemical preparations were the basis for development of the Slovak Material Safety Data Sheet for Exlak agent.

**16.6 Legal Notifications of COLOR Company, s.r.o.**

Information given in the Material Safety Data Sheet conforms to our state of knowledge at the time of its publication. All guarantees are excluded. Please, read the label and Material Safety Data Sheet of the agent before any use or treatment.

Compiler: EKO – ADR, Bratislava