

	SAFETY DATA SHEET according to Act No. 350/2011 Coll., EC Regulation No. 1907/2006 (REACH), EC Regulation No. 1272/2008 (CLP) and Commission Regulation EU No. 453/2010			
	Product name:	EKOSTONE 1 I		Page - 1/9 -
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SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier:	
	Name:	EKOSTONE 1 I
	Other means of identification:	Manufacturer's product code: 31430941
	Registration no.:	not assigned, not a substance
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Identified uses:	protective wax coating for final treatment of tiles
	Uses advised against:	not specified
1.3	Details of the supplier of the safety data sheet:	
	Distributor: <i>(entity responsible for marketing)</i>	Druchema, cooperative for chemical production and services Služeb 3 10031, Praha 10 - Strašnice Tel.: 296 814 111 Fax: 296 814 409 www.druchema.cz
Professionally qualified person responsible for the safety data sheet: PharmDr. Vladimír Végh, info@pharmis.cz		
1.4	Emergency telephone number:	
	Toxikologické informační středisko (Toxicological Information Centre), Na bojišti 1, Praha (non-stop) +420-224919293 / +420-224915402. Information only for health risks - acute poisoning of humans and animals	

SECTION 2 HAZARDS IDENTIFICATION

Overall classification of the mixture: the mixture is **not** classified as hazardous according to European legislation (67/548/EEC, 1999/45/EC, EC 1907/2006/EC (REACH), 1272/2008/EC (CLP)) and national legislation (350/2011 Coll.).

	Hazardous effects on human health:	The mixture is not classified as hazardous for human health. Undesirable effects on health are not expected in normal use. Prolonged or repeated contact with unprotected skin may cause skin degreasing to mild irritation. Direct eye contact may cause temporary irritation. Ingestion of larger amounts may cause possible abdominal pain, vomiting, diarrhoea.		
	Hazardous environmental effects:	The mixture is not classified as hazardous for environment. No adverse environmental effects are expected in normal use. The surfactants used comply with the requirements of Directive No. 648/2004/EC on biodegradability.		
2.1	Classification of the substance or mixture:			
	Classification according to Directive 67/548/EEC / 1999/45/EC:	The mixture is not classified as hazardous.		
2.2	Label elements			
	It contains:	not required		
	Hazard pictogram:	not required		
	Specific risk phrases (R-phrases):	not required		

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Standard instructions for safe handling (S-phrases):	not required
Other mandatory designations:	not required
2.3 Other hazards	<p>Content of PBT and vPvB substances: the mixture is not subject to the criteria for PBT or vPvB substances in accordance with Annex XIII of EU Regulation No. 1907/2006, the ingredients are not listed in the Candidate List of substances of very high concern (SVHC).</p> <p>Contaminated surfaces present a risk of slipping.</p>

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

The mixture/dispersion of polyethylene waxes, surfactants and excipients in water.

3.1 Substances	not applicable
3.2 Mixtures	The mixture contains the following hazardous substances/substances with a Community/Czech occupational exposure limit/persistent substance, bioaccumulative and toxic substances or very persistent and very bioaccumulative substances:

Substance name: <i>REACH registration number</i>	Content (%w.)	EC number CAS number Index number	Classification according to 67/548/EEC 1999/45/ES*	Classification according to 1272/2008/EC*	Exposure limit
ethoxylated alcohols <i>REACH not assigned yet</i>	1-3	not assigned not assigned not assigned	Xn; R22 Xi; R36/38 #	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 ##	H302 H315 H319 -

* For the full text of the specific risk designation (R-phrases) and standard hazard statements (H-statements) see Section 16.e.
Not classified in Annex I of Directive No. 67/548/EEC, manufacturer's own classification given.
Not classified in Annex VI of Regulation No. 1272/2008/EC, using the conversion table in Annex VII for classification.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures	<p>Follow all safety instructions on the packaging. No undesirable effects on human health are expected in normal use. If health problems occur or in case of doubt, inform the physician and provide them with the information in this safety data sheet. If unconscious, place the casualty in a recovery position and monitor breathing. Never give liquids to an unconscious person.</p>
Following inhalation:	Undesirable effects on health by inhalation of vapours or aerosols are not expected. In case of sporadic symptoms after the inhalation of vapours/aerosols, remove the casualty from the range of further contact. Seek medical attention if respiratory irritation, drowsiness, nausea or loss of consciousness occur after the inhalation of aerosols. If respiratory arrest occurs, use a mechanical breathing apparatus or provide mouth-to-mouth resuscitation until the physician arrives.
Following skin contact:	Remove contaminated clothing. Wash the parts of the body that have come into contact with plenty of water. Seek medical attention if skin irritation persists.
Following eye contact:	If the eyelids are open, rinse with lukewarm running water for at least 15 minutes. If the casualty has contact lenses, they should be removed before rinsing. Seek medical attention if the symptoms persist.
Following ingestion:	Rinse mouth with water and give larger amounts of water or milk to drink (only if the casualty is conscious). Do not induce vomiting. In case of spontaneous vomiting, avoid inhalation of the vomit. Seek medical attention immediately and show the product label or this safety data sheet.
4.2 Most important symptoms and effects, both acute and delayed	<p>The mixture is not classified as hazardous for human health. Undesirable effects on health are not expected in normal use. Prolonged or repeated contact with unprotected skin may cause skin degreasing to mild irritation. Direct eye contact may cause temporary irritation. Ingestion of larger amounts may cause possible abdominal pain, vomiting, diarrhoea.</p>

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4.3 Indications of any immediate medical attention and special treatment needed
 No specific therapy is known. Use supportive and symptomatic treatment. Use caution when vomiting and gastric lavage.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

<u>Suitable extinguishing media:</u>	splintered water, alcohol-resistant foam, dry extinguishing agent, carbon dioxide (CO ₂) or other extinguishing gases - the mixture is non-flammable, adapt it to the burning material
<u>Unsuitable extinguishing media:</u>	do not use a full stream of water, it may contribute to the spread of fire

5.2 Special hazards arising from the substance or mixture

Non-flammable - water emulsion/suspension. After the evaporation of water, irritating or harmful gases/vapours/smoke (carbon monoxide, aldehydes, carbon black, other hydrocarbon decomposition products) may be formed during thermal decomposition at high temperatures or incomplete combustion.

5.3 Advice for fire-fighters

Evacuate the area. Fire fighters must always wear standard protective equipment and in enclosed spaces also a portable breathing apparatus - possible formation of toxic, irritant and flammable decomposition products. Use water mist to cool the surfaces exposed to fire and to protect the personnel. If possible, avoid drainage from the fire fighting equipment or contaminated fire extinguishing water from entering the water courses, sewage systems or drinking water supplies.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Observe regulations for the protection of persons and safety at work. In case of an accident, avoid contact with skin, eyes and mucous membranes. Order out the unprotected persons from the accident site. Use personal protective equipment according to Chapter 8. Be aware of the risk of slipping on a contaminated surface - rinse thoroughly or sprinkle with suitable material (sand, sawdust). Additional protective measures may be necessary, depending on the specific circumstances and/or expert opinion of the persons responsible for emergency situations.

6.2 Environmental precautions

Immediately remove the source/cause of leakage if you can do so without risk. Prevent contamination of soil and leakage to sewage systems, surface waters or groundwater. Undesirable environmental effects can be reduced by sufficient dilution with large amounts of water. Report large spills to the competent environmental authorities.

6.3 Methods and material for containment and cleaning up

Vacuum large quantities using a suitable pump, absorb residues into suitable absorbent material such as bentonite, vaxep, soil, sand or other and place in a suitable container for safe disposal. The containers must be marked. Dispose of the collected materials in accordance with local regulations (see Section 13). Clean the affected area with plenty of water. Smaller leaked quantities (e.g. from small consumer packages) can be flushed with larger amounts of water into the sewage systems.

6.4 Reference to other sections

Follow the instructions in Sections 8 and 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes and mucous membranes, avoid contact of the undiluted mixture with skin or the prolonged contact of the diluted mixture with skin. Use personal protective equipment. For personal protection see Section 8. Follow all instructions for use, exposure limits and precautions. Handle to avoid accidental leakage.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original or properly labelled spare packaging. Store in a dry, weather-proof place with adequate ventilation. Keep away from freeze, store at temperatures between +5°C and +30°C. Keep out of the reach of children.

7.3 Specific end use(s)

not specified

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control parameters						
	Exposure limits according to Government Regulation No. 361/2007 Coll.: not specified						
	<table border="1"><thead><tr><th>CAS</th><th>name</th><th>Exposure limit</th></tr></thead><tbody><tr><td>-</td><td>-</td><td>-</td></tr></tbody></table>	CAS	name	Exposure limit	-	-	-
CAS	name	Exposure limit					
-	-	-					
	Indicative occupational exposure limit values according to Commission Directives 2000/39/EC, 2006/15/EC and 2009/161/EC: not specified						
	<table border="1"><thead><tr><th>CAS</th><th>name</th><th>LHE</th></tr></thead><tbody><tr><td>-</td><td>-</td><td>-</td></tr></tbody></table>	CAS	name	LHE	-	-	-
CAS	name	LHE					
-	-	-					
	Maximum occupational exposure limits for solid aerosols without toxic effects: not specified						
	Limit values of indicators of biological tests (No. 432/2003 Coll., Annex 2): not specified						
	DNEL: not specified						
	PNEC: not specified						
8.2	Exposure controls						
	Observe the usual health and safety measures according to regulation No. 361/2007 Coll. Follow the good personal hygiene practices, such as washing after handling the material, before eating, drinking, or smoking. Have work clothes and protective equipment cleaned regularly. Dispose of contaminated clothes and footwear that cannot be cleaned. Keep your workplace tidy. The selection of personal protective equipment depends on the conditions of possible exposure, use, handling, concentration and ventilation. The information below on the selection of protective equipment for use with this material is based on its normal use.						
	<u>Appropriate technical controls:</u> No specific requirements are needed.						
	<u>Individual protection measures, including personal protective equipment:</u>						
	a) Eye and face protection: Not needed during normal work, if contact is likely (e.g. overfilling, accident handling), safety goggles with side-shields (EN 166) are recommended.						
	b) Skin protection: It is not needed in normal use, if long-term or repeated contact is possible, chemically resistant gloves are recommended. Wear industrial gloves (standards CEN EN 420 and EN 374) if contact with the forearm is possible. The recommended glove material has not been specified. <u>Note:</u> The suitability of the gloves and the release time will vary depending on the specific conditions of use. Contact the glove manufacturer for accurate information on the glove selection and release times for your conditions of use. When selecting the specific suitable gloves for the respective use and exposure duration, you should take into account all factors of the working environment, such as the other chemicals used, physical factors (possible cuts, tear, heat resistance), as well as the specifications and recommendations of the particular manufacturer.						
	c) Respiratory protection: Not needed in normal use.						
	d) Thermal hazards: No risks in normal use.						
	<u>Environmental exposure controls:</u> No use in normal use; avoid leakage of large quantities from entering surface water courses and sewage systems. Observe the usual environmental precautions, see Sections 6.2 and 12.						

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties		
	Property	value	method / conditions
	appearance:	liquid - water emulsion/suspension.	-
	colour:	milky, light beige	-
	odour:	indefinite	-
	odour threshold:	no information available	-
	pH:	9 - 10	-
	melting point/freezing point:	no information available	-
	initial boiling point and boiling range:	100°C	101.3 kPa
	flash point:	non-flammable - water dispersion	-
	evaporation rate:	no information available	-
	flammability (solid, gas):	no information available	-
	explosion or flammability limits:	non-flammable - aqueous solution	-
	vapour pressure:	no information available	-
	vapour density:	no information available	-
	relative density:	1.0 - 1.1 g/cm ³	-
	solubility:	freely soluble/dispersible in water	20°C
	partition coefficient: n-octanol/water:	no information available	-
	auto-ignition temperature:	not subject to autoignition	-
	decomposition temperature:	no information available	-
	viscosity:	<500 mPa.s	Brookfield
	explosive properties:	no explosive properties	-
	oxidizing properties:	no oxidizing properties	-
9.2	Additional information		
	-	-	-

SECTION 10 STABILITY AND REACTIVITY

10.1	Reactivity The mixture is not reactive under normal conditions of use and storage.
10.2	Chemical stability The mixture is chemically stable under normal conditions of use and storage.
10.3	Possibility of hazardous reactions No dangerous reactions known.
10.4	Conditions to avoid Stable under normal conditions.
10.5	Incompatible materials No incompatible materials are known.

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10.6	Hazardous decomposition products No hazardous decomposition products are produced in normal use. In case of fire, after the evaporation of water, irritating or harmful gases/vapours/smoke (carbon monoxide, aldehydes, carbon black, other hydrocarbon decomposition products, sulphur oxides and nitrogen oxides) may be formed after incomplete combustion or during thermal decomposition at high temperatures.
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SECTION 11 TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects The mixture is not classified as hazardous for human health.
<i>a)</i>	<i>Acute toxicity</i> Not specified for the mixture. In normal use, no direct toxic effects are expected at the applicable doses. Ingestion of larger amounts may cause possible abdominal pain, vomiting, diarrhoea.
<i>b)</i>	<i>Irritation</i> The mixture has no direct irritant effect requiring classification. However, it may temporarily irritate the eyes in direct contact. Prolonged or repeated contact with unprotected skin may cause mild irritation.
<i>c)</i>	<i>Corrosion</i> The mixture does not have these properties.
<i>d)</i>	<i>Sensitisation</i> Not specified for the mixture, the ingredients have no sensitizing properties.
<i>e)</i>	<i>Repeated dose toxicity</i> Not specified for the mixture. No toxic effects are expected.
<i>f)</i>	<i>Carcinogenicity</i> Not specified for the mixture. The ingredients have no carcinogenic potential.
<i>g)</i>	<i>Mutagenicity</i> Not specified for the mixture. The ingredients of the mixture have no mutagenic effect.
<i>h)</i>	<i>Reproductive toxicity</i> Not specified for the mixture. The ingredients of the mixture have no potential for reproductive toxicity.

SECTION 12 ECOLOGICAL INFORMATION

The mixture is not classified as hazardous for environment.

12.1	Toxicity Not specified for the mixture. In normal use, no undesirable effects on the environment are expected.
12.2	Persistence and degradability Not specified for the mixture.
12.3	Bioaccumulative potential No information available. The ingredients have no bioaccumulative properties.
12.4	Mobility in soil Freely soluble/dispersible in water.
12.5	Results of PBT and vPvB assessment The mixture is not subject to the criteria for PBT or vPvB substances in accordance with Annex XIII of EU Regulation No. 1907/2006, the ingredients are not listed in the Candidate List of substances of very high concern (SVHC).
12.6	Other adverse effects Not known. The mixture in usual amounts does not interfere with biological processes in waste water treatment plants.

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SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

It is recommended to hand over a larger amount to a licensed waste management company or an authorized collection point. The disposal must comply with all applicable European and local waste regulations.

Methods of disposal for the substance or mixture:

Do not dispose of unused product together with the household waste. Smaller amounts of the mixture may be flushed into the sewage systems if thoroughly diluted. According to the European Waste Catalogue, the classification of the given type of waste is application-specific and not product-specific. Therefore, the waste must be classified by the end user on the basis of its specific use.

Proposed classification of waste according to intended use:

07 06 WASTES FROM THE MFSU OF FATS, GREASE, SOAPS, DETERGENTS, DISINFECTANTS AND COSMETICS

Type of waste: Wastes not otherwise specified

Waste catalogue number: 07 06 99

Hazardous waste: no (O)

Methods of disposal for contaminated packaging:

After thorough rinsing with water it is possible to recycle it.

Proposed classification of waste according to intended use:

15 01 PACKAGING (including separately collected municipal packaging waste)

Type of waste: Plastic packaging

Waste catalogue number: 15 01 02

Hazardous waste: no (O)

SECTION 14 TRANSPORT INFORMATION

The mixture is **not** classified as dangerous for transport according to ADR/RID/IMDG/ICAO/IATA.

14.1 UN number: -

14.2 UN proper shipping name

<i>Land transport ADR</i>	<i>Rail transport RID</i>	<i>Marine transport IMDG</i>	<i>Air transport ICAO/IATA</i>
-	-	-	-

-	-	-	-
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14.3 Transport hazard class(es)

<i>Land transport ADR</i>	<i>Rail transport RID</i>	<i>Marine transport IMDG</i>	<i>Air transport ICAO/IATA</i>
-	-	-	-

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Classification code

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Hazard identification number (Kemler)

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Safety sign

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Other notes

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14.4 Packing group

<i>Land transport ADR</i>	<i>Rail transport RID</i>	<i>Marine transport IMDG</i>	<i>Air transport ICAO/IATA</i>
-	-	-	-

-	-	-	-
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14.5	Environmental hazards: none
14.6	Special precautions for the user: not required
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code: not transported

SECTION 15 REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture <u>Legislation:</u> <ul style="list-style-type: none"> - Act No. 350/2011 Coll. on chemical substances and mixtures, including implementing regulations (Chemical Act). - Decree No. 402/2011 Coll. of 8 December 2011 on the evaluation of hazardous properties of chemical substances and chemical mixtures and packaging and labelling of dangerous chemical mixtures - Regulation of the European Parliament and Council (EC) No. 1907/2006 of 18 December 2006 on registration, evaluation, authorization and restriction of chemicals, on the establishment of the European Chemicals Agency - Commission Regulation (EU) No. 453/2010 of 20 May 2010, amending the Regulation of the European Parliament and of the Council (EC) No. 1907/2006 on registration, evaluation, authorization and restriction of chemicals (REACH) - Directive of the European Parliament and of the Council No. 1999/45/EC of 31 May 1999 on the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations - Directive of the Council No. 67/548/EC of 27 June 1967 on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances - Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures - Commission Directive No. 2000/39/EC of 8 June 2000 establishing the first list of indicative occupational exposure limit values in implementation of Council Directive No. 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work - Commission Directive No. 2006/15/EC of 07 February 2006 establishing the second list of indicative occupational exposure limit values in implementation of Council Directive No. 98/24/EC and amending Directives No. 91/322/EEC and No. 2000/39/EC - Commission Directive No. 2009/161/EU of 17 December 2009 establishing the third list of indicative occupational exposure limit values in implementation of Council Directive No. 98/24/EC and amending Commission Directive No. 2000/39/EC - European Waste Catalogue - Decree of the Ministry of the Environment No. 383/2001 Coll., on details of waste management (Waste Catalogue) - Act No. 185/2001 Coll., on waste, as later amended, and its implementing regulations - Act No. 309/2006 Coll., regulating other requirements of health and safety at work in labour relations and on ensuring safety and health at work or providing services outside labour relations - Government Regulation No. 361/2007 Coll., determining condition of occupational health protection - Act No. 309/2001 Coll., as amended, on further requirements with regard to occupational safety and health - Decree No. 432/2003 Coll., stipulating conditions for the classification of work to categories, limit values of indicators of the biological exposure tests - Government Regulation No. 101/2005 Coll., on more detailed requirements for the workplace and working environment - Act No. 201/2012 Coll., on the protection of air, as later amended, and its implementing regulations - Act No. 477/2001 Coll., on packaging, as later amended and it implementing regulations - Regulation of the European Parliament and of the Council (EC) No. 648/2004 of 31 March 2004 on detergents
15.2	Chemical safety assessment Has not been performed

SECTION 16 ADDITIONAL INFORMATION

a)	<i>Changes to the safety data sheet within revision changes:</i> not applicable, first edition - version 1.0								
b)	<i>Key to the abbreviations:</i> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Xi</td> <td>Irritant</td> </tr> <tr> <td>Xn</td> <td>Harmful</td> </tr> <tr> <td>Skin Irrit. 2</td> <td>Skin corrosion/irritation, sub-category 2</td> </tr> <tr> <td>Eye Irrit. 2</td> <td>Serious eye damage/irritation, category 2</td> </tr> </table>	Xi	Irritant	Xn	Harmful	Skin Irrit. 2	Skin corrosion/irritation, sub-category 2	Eye Irrit. 2	Serious eye damage/irritation, category 2
Xi	Irritant								
Xn	Harmful								
Skin Irrit. 2	Skin corrosion/irritation, sub-category 2								
Eye Irrit. 2	Serious eye damage/irritation, category 2								

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	Acute Tox. 4	Acute toxicity, category 4
	Exp. lim.	Exposure limit
	PEL	Permissible exposure limit
	MPC	Maximum permissible concentration
	PBT	Persistent, bioaccumulative and toxic
	vPvB	Very persistent and very bioaccumulative substances
	DNEL	Derived no-effect level
	PNEC	Predicted no-effect concentration
	VOC	Volatile organic compounds
	ELV	Exposure limit value
c)	<i>Important references to literature and data sources:</i> In the preparation of this Safety Data Sheet, the original versions of the Material Safety Data Sheets and the composition of the mixture according to the Technical-Economic Standard of the manufacturer No. 31430941 of 9 November 2012 were used.	
d)	<i>Hazard assessment and classification of mixture:</i> The assessment of the mixture was carried out by expert opinion and by the conventional calculation method according to Directive No. 1999/45/EC	
e)	<i>List of relevant R-phrases, hazard statements, safety phrases and/or precautionary statements</i> R36/38 Irritating to eyes, respiratory system and skin R22 Harmful if swallowed H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation	
f)	<i>Personnel training instructions</i> Not needed for small consumers; routine occupational safety training is required for professional use.	
g)	<i>Additional information</i> This information applies only to the product described above and may not be valid for use with another product or area of use. The information corresponds to our best current knowledge and is given in good faith, but without any guarantee. This information does not replace the quality specifications and cannot be considered as a guarantee of suitability for any specific use. The user of the product is responsible for compliance with all applicable regulations and regulations, even if they are not directly quoted in this Safety Data Sheet. It is the responsibility of the user to ensure that the information provided is appropriate and sufficient for their specific use of the product. Prepared by: PharmDr. Vladimír Věgh, PHARMIS www.pharmis.cz	