

# Safety Data Sheet

(acc. to ES č. 1907/2006)

Printing date: 20.2.2015

Reviewed on: 20.2.2015

Trade name:

## Epoxy resin L 285-ultralight 5

### 1. Identification of substance:

#### 1.1 Identification of the substance or preparation

Title: Epoxy resin L 285-ultralight 5

Other names: L 285

#### 1.2 Use of the substance / preparation

Intended or recommended use of the substance (preparation): Construction laminating resin

Functional description of the substance or preparation: Construction laminating resin

#### 1.3 Identification of the company

Business name of the manufacturer:

Havel Composites s.r.o.

Business name of the distributor:

Havel Composites s.r.o.

Professionally qualified person:

Importer:

Havel Composites s.r.o. Tel: +420 585 129 011, 12

78354 Svěsedlice 67

IČO: 259 073 79

Contact Person:

Ing. Richard Moravec

#### 1.4 Telephone number for emergency:

Adress: Toxikologické informační středisko, Na Bojišti 1, 128 08 Praha 2

Phone: continuously 224 919 293, 224 915 402, or (day only) 224 914 575.

## 2. HAZARDS IDENTIFICATION

### 2.1 Overall classification of the substance / preparation:

N – Dangerous for environment



Xi – Irritant



Signal word: **Warning**

### 2.2 R-phrases

R 43 May cause sensitization by skin contact

R 40 Possible risk of irreversible effects

R 36/38 Irritating to eyes and skin

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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### 2.3 S-phrases

S23-Do not breathe gas / fumes / vapor / spray.

S24-Avoid contact with skin.

S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37-Wear suitable protective gloves.

S60-This material and its container must be disposed of as hazardous waste.

S61-Avoid release to the environment. Refer to special instructions safety data sheets.

### CLP

Eye Irrit. 2; H319

Skin Irrit. 2; H315

Skin Sens. 1; H317

Aquatic Chronic 3; H412

### 2.4 Contains

Epoxy resin of bisphenol A number average molecular weight <700

### 2.5 Other risks

On the basis of the ingredients, it is assumed that the mixture does not meet the criteria for PBT / vPvB.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1. A general description of the substance / preparation

The product contains the following substances classified as hazardous:

Hazardous ingredients:	Number REG/CAS/EC:	Symbol / Code hazard classes and categories	Content in (%):	R-phrases / code declaration danger
bisfenol-A-epichlorhydrin	01-2119456619-26-0002 / 25068-38-6 / 500-033-5	Xi; N; Aquatic Chronic 2 Skin Sens. 1 Skin Corr./Irrit. 2 Eye Dam./Irrit. 2	50 - 70	R36/38 R43 R51 R53 H411; H317 H315;H319
1,2,3-Propanetriol, glycidyl ether	90529-77-4 / 292-011-4	Xi; Skin Corr./Irrit. 2 Eye Dam./Irrit. 2	50-70	R36/38 H315;H319

## 4. FIRST AID

### 4.1. General information:

Immediately remove clothes stained with product.

### 4.2. After inhalation:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen supply. The person providing aid to give mouth-to-mouth can be dangerous to the rescuer. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband. If adverse health effects persist or are severe, consult a doctor. If unconscious, place in recovery position and get medical attention immediately.

4.3. After contact with skin:

Immediately wash with water and soap and rinse them thoroughly.

### 4.3 On contact with skin

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Before removing Wash contaminated clothing thoroughly with water or wear gloves. Flush with water for at least 10 minutes. Seek

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medical help. In the event of any complaints or symptoms, avoid further exposure. Before the next clothing before reuse. Before further use of Clean shoes thoroughly.

#### 4.4. On contact with eyes:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Flush with water for at least 10 minutes. Seek medical help.

#### 4.5. Ingestion:

Rinse mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If a substance has been swallowed and the exposed person is conscious, give water to drink in small doses. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless specifically recommended by your doctor. If vomiting occurs, keep head in such a position so as not to vomit into the lungs. If adverse health effects persist or are severe, consult a doctor. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as. collar, tie, belt or waistband.

## 5. FIRE-FIGHTING MEASURES

#### 5.1. Suitable extinguishing media:

Atomizing water, foam, extinguishing powder, carbon dioxide. Use an extinguishing agent suitable for the surrounding fire.

#### 5.2. Extinguishing media from a security point of view:

#### 5.3. Special hazards caused by the substance, its products of combustion during a forming gases:

In case of fire, the following substances are released:

Carbon monoxide ( CO)

Under certain conditions when burning can not exclude the presence of residues of toxic gases:

hydrogen chloride ( HCl) In a fire or if heated, a pressure increase will occur and the container may burst.

#### 5.4. Special protective equipment for firefighters:

Self-contained breathing apparatus. Wear protective breathing mask. Wear full protective clothing.

#### 5.5. More information:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. It must not be undertaken any action that would involve risk to persons or action without suitable training. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## 6. MEASURES ACCIDENTAL LEAK

#### 6.1. Safety measures for people:

It must not be undertaken any action that would involve risk to persons or action without suitable training. Evacuate surrounding area. No Trespassing unnecessary and unprotected personnel. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Ensure adequate ventilation. If ventilation is inadequate, wear suitable respiratory equipment. Put on appropriate personal protective equipment. Unprotected persons maintain at a safe distance upwind

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### 6.2. Measures relating to the environment:

Avoid dispersal of spilled material and runoff and contact with soil, its entry into waterways, drains and sewers. If the product has caused environmental pollution (sewers, waterways, soil or air) authorities. Water polluting material. May be harmful to the environment if released in large quantities. Avoid subsoil penetration.

### 6.3. Suggested Methods for cleaning up:

Collect liquid through sucking material (sand, kieselguhr, universal binder, sawdust). Ensure adequate ventilation. Collected material dispose as hazardous waste according to Chapter 13.

### 6.4. Additional information:

Stop leak if without risk. Move containers from spill area. Approach release downwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material eg sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal. Contaminated absorbent material may pose the same hazard as the spilled product.

## 7. HANDLING AND STORAGE

### 7.1. Instructions for safe handling:

Tanks stored in a sealed closed., Exhaustion at the workplace. Carefully open and manipulate with containers.

### 7.2. Advice on protection against fire and explosion:

Keep away from sources of ignition in - follow the general fire regulations.

### 7.3. Storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Until ready for use Keep container tightly closed and sealed. Open containers must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate container to avoid environmental contamination..

### 7.4. Requirements for storage areas and containers:

Store in well-sealed containers.

### 7.5. Advice on common storage:

Store away from food.

### 7.6. Further guidance on storage conditions:

Store in a cool, dry place in properly sealed containers.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Additional information on the organization of technical classification:

Derived (dose concentration) without a hazardous effect (DNEL) and predicted concentrations without dangerous effects (PNEC)

Explanation: REACH requires manufacturers and importers to establish and report on DNEL and PNEC for the environmental exposure. DNEL and PNEC determined registrant without passing through official consultation process, and is not intended to be used directly in the establishment or workplace exposure limits for the general population. Used first as input values in the implementation of quantitative risk assessment models (such as model ECETOC-TRA) due to differences in calculation procedures DNEL is generally lower (sometimes significantly) than any corresponding health-based OEL (occupational exposure limit value in the work environment) for the same chemical. Furthermore, although DNEL (a PNEC) are indicators for determining measures for risk reduction, we must realize that these limits do not use the same control as the government officially confirmed OEL values

### 8.2. Control parameters:

#### DNEL

Chemical Name	Exposure / Effect (consequences)	DNEL	Population
epoxy resin of bisphenol A	number average molecular weight <700		
	Short-term dermal / Systematic	8.3 mg / kg bwday	Workers
	Short-term Inhalation / Systematic	12.3 mg / m <sup>3</sup>	Workers
	Long-term dermal / Systematic	8.3 mg / kg bw / day	Workers
	Prolonged inhalation / Systematic	12.3 mg / m <sup>3</sup>	Workers
	Short-term dermal / Systematic	3.6 mg / kg bw / day	General
	Short-term Inhalation / Systematic	0.75 mg / m <sup>3</sup>	General
	Short-term oral / systemic	0.75 mg / kg bw / day	General
	Long-term dermal / Systematic	3.6 mg / kg bw / day	General
	Prolonged inhalation / Systematic	0.75 mg / m <sup>3</sup>	General
	Long-term oral / systemic	0.75 mg / kg bw / day	General

#### PNEC

Identification	information about environment	PNEC	information on the method
epoxy resin of bisphenol A	number average molecular weight <700		
	Fresh water is	3 mg / l	
	Sea	0.3 mg / l	
	Wastewater treatment plant of	10 mg / l	
	Freshwater sediment	0.5 mg / kg dwt	
	Marine sediment	0.5 mg / kg dwt	
	Sediment	0.05 mg / kg dwt	
	Occasional leaks	0.013 mg / l	

### 8.3. Personal protective equipment:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use its closing workspaces, local exhaust ventilation or other engineering controls to keep the length of exposure to this product below any recommended or statutory limits.

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## **8.3.1. General protective and hygiene measures:**

Store away from foodstuffs, beverages and feed. Polluted and contaminated clothing immediately undress. Before breaks and after work wash your hands. Separate storage of protective clothing. Do not inhale gases, vapors, aerosols. Avoid contact with eyes and skin. When using do not eat or drink.

## **8.3.2. Respiratory protection:**

In case of insufficient ventilation, respiratory protection.

## **8.3.3. Hand protection:**

Rubber gloves, plastic gloves with long cuffs.

## **8.3.4. Eye protection:**

Avoid contact with eyes and skin contact.

## **8.3.5. Body protection:**

Protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. General Information**

Appearance:

Form: liquid

Color: transparent

Odor : light, characteristic

### **9.2. Important health, safety and the environment:**

Change of state under 0 ° C

Boiling point / boiling range

Flash point above 100 ° C

Ignition Temperature

HEAT decomposition

Autoignition

Vapor pressure

Density at 25 ° C

Water solubility, miscibility insoluble

Solubility in organic solvents, soluble in most organic solvents

Viscosity 7000-13000 mPa.s

### **9.3. More information**

The information required by the Act No. 86/2002 Coll., On air, respectively. vyhl.č.355/2002 Sb., as amended:

Threshold VOC:

Maximum VOC content in ready to use:

## **10. STABILITY AND REACTIVITY**

### **10.1 Conditions to avoid:**

No decomposition if stored and handled in terms of destination.

### **10.2 Materials to avoid:**

Reaction with strong acids and alkalis.

Reactions with strong oxidant.

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## 10.3 Hazardous decomposition products:

In normal use they do not. At high temperatures and fire produces hazardous products such as carbon monoxide and dioxide, smoke and oxides of nitrogen (NOx).

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Description of the symptoms of exposure

Primary irritant effect:

- Inhalation:

- On the skin: In No. 404 OECD study on rabbit 4 h exposure redness and swelling are minimal. Therefore, BADGE is not irritating to the skin. In other studies with rabbits was used occlusive 4 h of exposure. Maximum redness and swelling scores observed in these extreme conditions were 1.5-2 and 1-1.5, respectively.

- On the eye: Results SLP No. 405 OECD study in 2007 reported average maximum irritation score of 1.7. Therefore BADGE was not irritating to the eyes in this study. The results of several earlier non-guideline studies support this conclusion.

- Sensitization: In No. 429 OECD study estimated the mouse LLNA EC3 concentration was 5.7% indicating that BADGE is mild skin sensitizer in this test system. The OECD No. 406 guinea pigs Maximizing study BADGE induced positive skin reaction at 100% of the experimental animals at 50% of the dose concentration challenge. Therefore BADGE "Extreme" skin sensitizer under the conditions of this study. BADGE was also positive for skin sensitization in OECD No. 406 guinea pig Buehler method study.

-Germ cells

BADGE-induced gene mutations in the Ames / Salmonella tester strains TA1535 and TA100 in several studies. Generally, mutagenic activity was higher without liver S9 metabolic activation. -Induced mutations in mouse L5178Y lymphoma cells. Induced gene mutations and chromosomal damage in Chinese hamster V79 cells. Induced cell transformation in Syrian hamster BHK cells on clonal growth in soft agar. Did induce evidence of chromosomal damage in mouse dominant lethal oral gavage studies after high dose of 10 mg / kg and mouse micronucleus test to a high dose of 5000 mg / kg. Negative in male mice sperm cytogenetic assay treatment for 5 days of oral gavage to a high dose of 3000 mg / kg. Did not induce an increase in the frequency of chromosome damage in Chinese hamster bone marrow cytogenetic test probe into the oral high dose of 3300 mg / kg. Unable to induce an increase in DNA strand breaks in cells of the rat liver after oral gavage treatment with 500 mg / kg, as measured by alkaline elution.

-Carcinogenic

rat oral gavage OECD not. 453 studies there was no evidence of carcinogenicity to high dose of 100 mg / kg / day. OECD Test Guideline no. 453 dermal exposure studies were performed on male mice and rats. No evidence of carcinogenicity was observed in male mice treated to a high dose of 100 mg / kg / day and female rats were exposed to high dose level of 1000 mg / kg / day.

-Toxicity for reproduction

No adverse reproductive effects were observed in the OECD Test Guideline No. SLP 416 two-generation rat oral gavage study to a high dose of 750 mg / kg / day, which resulted in a smaller adult body weight.

-Development / teratogenicity

BADGE produced no evidence of developmental toxicity in rats and rabbits exposed to oral gavage or in rabbits treated with dermal routes in the OECD Test Guideline no. 414 GLP studies. Oral gavage studies were carried out to a high dose of 180 mg / kg / day which maternal toxicity base on reducing body weight gain. The rabbit dermal study was conducted as a high dose of 300 mg / kg / day caused maternal toxicity to reduce body weight.

-STOT - single exposure No applicable toxicity data. No known significant negative effects.

-STOT - repeated exposure

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-In rats OECD test guidelines not. 408 sub chronic oral study, the NOAEL was 50 mg / kg / day. Significant dose-related evidence of haematological toxicity was observed at doses of 250 and 1000 mg / kg / day. There was a significant increase in blood urea nitrogen at 250 and 1000 mg / kg / day and mild histopathological evidence of renal involvement with high doses of 1000 mg / kg / day. Histological examination found moderate degeneration of seminiferous tubules to 1000 mg / kg / day and best uterine effects at the same dose. The NOAEL for the rat 90-day dermal (5 days / week) study was 100 mg / kg / day, due to decreases in body weight at 1000 mg / kg / day. Based on chronic dermatitis LOAEL for adverse skin reactions in this study was 10 mg / kg / day. No evidence of neurotoxicity was observed in the rat 90-day dermal OECD Test Guideline no. SLP 411 studies up to high dose level of 1000 mg / kg / day with FOB, motor and neurohistopathological evaluation.

### 11. 2. Dangerous effects for health

Acute toxicity:

on the skin: Irritant to skin and mucous membranes

Eye contact: irritant effect

Hypersensitivity: can occur through contact with the skin.

Oral

LD50: Rat 30,000 mg / kg;

They are not acutely toxic in several studies in mice, LD50 > 2000 mg / kg body weight.

Dermal

LD50: Rat > 1,200 mg / kg;

Rats OECD not. 402 study dermal LD50 was > 2000 mg / kg. Several rabbit acute dermal LD50 study was > 2000 mg / kg. One rabbit study reported LD50 value of 23 g / kg.

## 12. ECOLOGICAL INFORMATION

Summary of the risk of environmental impact based on conventional methods to Directive 1999/45/EC

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

### 12.1 Toxicity

Epoxy resin LH 285-ul. No applicable toxicity data.

epoxy resin of bisphenol A number average molecular weight <700

FISH - The acute 96 hr static exposure LC50 for trout based on the results of OECD Well. 203 studies is 1.3 mg

/ L. Daphnia - The acute 48 hr static acute exposure EC50 value for Daphnia based on the outcome of OECD Well. 202 studies is 2.1 mg / L. A NOEC of 0.3 mg / L was Observed in a Daphnia 21-day semi-static OECD No. Reproduction 211 study. Daphnia survival, growth and reproduction significantly Were Reduced at Concentrations of 1 mg / L and Higher.

Algae-The 72 hr LC50 algal value is > 11 mg / L. The activated sewage sludge respiration inhibition 3 hr EC50 value based on an EC test method was > 100 mg / L. The growth inhibitor concentration for Pseudomonas in an 18 hr static exposure study was > 42.6 mg / L.

1,2,3-Propanetriol, glycidyl ethers No applicable toxicity data. No known significant negative effects.

### 12.2 Persistence and degradability

Epoxy resin LH 285-ul. No data are available.

epoxy resin of bisphenol A number average molecular weight <700

The level of biodegradation in an "enhanced" OECD 301F study was 5% Within the 28 day contact period.

Biodegradation Reached 6-12% after 28 days of contact in an OECD test guideline no. 301B study. Therefore, BADGE is not readily biodegradable under the conditions of the studies.

1,2,3-Propanetriol, glycidyl ethers No data are available.



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## 12.3. bioaccumulation potential

Epoxy resin LH 285-ul. No data are available.

epoxy resin of bisphenol A number average molecular weight <700

The OASIS CATALOGIC QSAR Estimated Bioconcentration Factor of 3-31 and Log Pow of 3.24 @ 25 C suggest low Potential to bioaccumulate in aquatic organisms.

1,2,3-Propanetriol, glycidyl ethers No data are available.

## 12.4. Mobility in soil

Epoxy resin LH 285-ul. No data are available.

epoxy resin of bisphenol A number average molecular weight <700

The Kocwin QSAR Estimated adsorption / desorption coefficient log Koc = 2.65 suggesting moderated sorption to organic matter and soil limited mobility.

1,2,3-Propanetriol, glycidyl ethers No data are available.

## 12.5. Results of PBT and vPvB

Epoxy resin LH 285-ul.

On the basis of the ingredients, it is assumed that the mixture does not meet the criteria for PBT / vPvB.

epoxy resin of bisphenol A number average molecular weight <700

Based upon a low Potential to bioaccumulate and EC50/LC50 values of > 0.1 mg / L BADGE is not PBT.

1,2,3-Propanetriol, glycidyl ethers No data are available.

## 13. INSTRUCTION FOR REMOVING

Recommendation:

It should be avoided or generation of waste. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Consign disposal of surplus and non-recyclable material licensed contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, its entry into waterways, drains and sewers.

Transported in accordance with official regulations for disposal.

Contaminated packaging:

Recommendation:

Contaminated packaging disposed of as the substances it contains.

## 14. TRANSPORT INFORMATION

### 14.1 Land transport (according to the European Agreement concerning the International Carriage of Dangerous Goods (ADR), No. 64/1987 Coll., As amended) ADR / RID:

Various hazardous materials and objects

Class: 9

Classification code:

Packing group: 3

Safety sign: 8

Hazard identification number: 9

UN number, name: 3082

Note: Proper shipping name: substance dangerous for the environment liquid (epoxy resin)

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## 14.2 Maritime transport IMDG:

Class: 9

UN Number: 3082

Packaging group: III

Marine pollutant:

Technical name: substance dangerous for the environment, liquid (epoxy resin)

## 14.3 Air transport ICAO/IATA:

Class: 9

UN Number: 3082

Type of packaging:

Technical name: Proper technical name: substance dangerous for the environment, liquid (epoxy resin)

Notes:

For more information:

## 15. REGULATORY INFORMATION

### 15.1 Container Information (as defined in Act No. 356/2003 Coll., And Decree No. 232/2004 Coll., As amended):

Designation according to EC guidelines:

The product is classified and labeled according to the guidelines ES. Produkt is classified and labeled according to the regulations for hazardous substances.

Symbol and hazard designation of product:

N - Dangerous for the environment

Xn - Harmful

Hazard-determining components placed on the label:

R-phrases:

R 43 May cause sensitization by skin contact

R 36/37/38 Irritating to eyes, respiratory system and skin

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 28 After contact with skin, wash immediately with plenty to be specified by the manufacturer, importer and distributor)

S 36/37/39 Wear suitable protective clothing, gloves and goggles or face shield.

### 15.2. Special provisions and legislation at the national level in the current version:

EP and Council Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

Act No. 356/2003 Coll., On chemical substances and chemical preparations, as amended.

Decree No. 232/2004 Coll., Implementing certain provisions of the Hazard. chemical materials and products, relating to the classification, packaging and labeling of Hazard. chemical substances and preparations ..

Act No. 185/2001 Coll., On waste.

Decree No. 381/2001 Coll., Issuing Waste Catalogue.

Decree No. 383/2001 Coll., On details of waste management.

Act No. 111/1994 Coll., On road transport.

Law No. 20/1966 Coll., On the health of the population, as amended.

Act No. 258/2000 Coll., The protection of public health.

Government Regulation No. 178/2001 Coll. Laying down conditions for the protection of health of workers at work.

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Act No. 133/1985 on fire protection, as amended.

Law No. 22/1997 Coll., On technical requirements for products.

Communication from the Ministry of Foreign Affairs No. 14/2007 Coll. ms supplementing Communication No. 159/1997 Coll., No. 54/1999 Coll. and No. 93/2000 Coll. m

s announcement of the adoption of amendments and supplements to "Annex A - General provisions concerning dangerous substances and objects "and" Appendix B - Provisions relating to transport and transport "European Agreement concerning the International

road transport of dangerous goods (ADR) ".

Communication from the Ministry of Foreign Affairs No. 60/1999 Coll., The adoption of amendments and supplements to "Annex I - Regulations concerning the International Carriage of dangerous goods (RID) Connection B - Uniform Rules concerning the Contract for International Carriage by Rail

goods (CIM) to the Convention concerning International Carriage by Rail (COTIF).

Act No. 254/2001 Coll., On water and its implementing regulations

Act No. 477/2001 Coll., On packaging and its implementing regulations

### 15.3. Special provisions and legislation at international level:

Status REACH substance / material in this product was / were pre-registered / ya / or registered, / Y, or is / is exempted from registration / s, by Regulation (EC) No. 1907/2006 (REACH).

EU list of chemicals All components are listed or exempted.

Philippines inventory (PICCS, Philippine catalog of chemicals and chemical substances) determined.

The list of chemicals of New Zealand (NZIoC) determined.

KOREA INVENTORY (KECI, Korean current list of chemicals) All components are listed or exempted.

Japanese list (ISHL) determined.

Japan's inventory (ENCS, Current and new chemical substances) determined.

China inventory (IECSC, China's current catalog of chemicals) All components are listed or exempted.

Australia inventory (AIGS, Australia inventory of Chemical Substances) All components are listed or exempted.

Canadian list of exempted.

American list (8b TSCA, the Law on the Control of toxic substances) compliance.

## 16. FURTHER INFORMATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Full text of abbreviated H statements :

H411 - Toxic to aquatic life with long lasting effects.

H317 - May cause an allergic skin reaction.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

The full text of classifications [CLP / GHS]: Hazardous to the aquatic environment - chronic category 2 - H411

SKIN SENSITISATION Category 1 - H317

CORROSION / IRRITATION Category 2 - H315

SERIOUS EYE DAMAGE / IRRITATION Category 2 - H319

The full text of abbreviated R phrases: R36/38- Irritating to eyes and skin.

R43-May cause sensitization by skin contact.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD / DPD]: Xi Irritant

N Dangerous for the environment.

Conforms to Regulation (EC) No 1907/2006 (REACH), Annex II

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history

Print Date: February 20, 2015

Date of issue / Date of revision: 20 February 2015

Date of previous issue:

Version: 1.0

Note to readers

Company Havel Composites was convinced of the accuracy of the information contained herein at the time of preparation of this material or the information was obtained from sources known to the company Havel Composites believes to be reliable; However, the user is responsible for studying other relevant sources of information and understanding and to comply with all laws and procedures applicable to the safe handling and handling of the product, and for determining the suitability of the product for its intended use. For all products supplied by Havel Composites valid sales terms and conditions of the company Havel Composites. Havel Composites **COMPANY MAKES NO WARRANTY, WHETHER EXPRESS OR IMPLIED, TO ANY PRODUCTS OR THEIR MERCHANTABILITY, OR FITNESS FOR ANY PURPOSE. Havel Composites SHALL ALSO MAKES NO WARRANTY AS TO THE ACCURACY OF ANY INFORMATION PROVIDED BY Havel Composites, except guarantees that its products will conform to the technical parameters of the company Havel Composites. Nothing herein shall not constitute an offer for sale of any product.**

Translated by: Ing. Richard Moravec