

## SAFETY DATA SHEET

According to Regulation of European Parliament and Council (EC) no. 1907/2006  
and according to Annex II of Regulation of European Parliament and Council (EC) no. 830/2015

Date of issue	17/9/2019	Date of revision no. :	
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier			
<b>Glass Spray</b>			
Registration number	not applicable for mixture	CAS	not applicable for mixture
1.2.	Relevant identified uses of the substance or mixture and uses advised against	Glass spray.	
	Uses advised against	Mixture may be used only for the purpose listed in instructions for use.	



1.3. Details of the supplier of the safety data sheet	
Supplier - business name:	Humdakin
Street:	Estrupvej 1
Town:	8380 Trige
Country:	Denmark
Telephone:	+45 6014 1588
E-mail address for a competent person responsible for the SDS:	info@humdakin.com

1.4. Emergency telephone number:	112 (General emergency phone), 998 (fire brigade), 999 (ambulance service).
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### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	Mixture is classified as dangerous according to Act no. 350/2011 of Coll. on Chemical Substances and Chemical Preparations and on amendments to several acts as amended (Act on Chemicals):
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Classification according to Regulation (EC) no. 1272/2008	Flammability – <b>Flam.liq.3; H226</b> Eye corrosion/irritation - <b>Eye Irrit. 2; H319</b>		
Most serious undesirable effects: - on human health - on environment - physical and chemical effects	Causes serious eye irritation.  Flammable liquid and vapour		
Hazard pictograms:	GHS07 Serious eye irritation, hazard classification 2	GHS02 Flammable liquid Category 2	

2.2. Labelling	
GHS hazard pictograms:	  GHS07                      GHS02
Signal word:	<b>Warning</b>
Hazard statements:	H226 Flammable liquid and vapour H319 Causes serious eye irritation.
Precautionary statements - prevention	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 Keep container tightly closed.
Precautionary statements - response	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary statements - storage	P403+P235 Store in a well ventilated place. Keep cool.
Precautionary statements - disposal	P501 Dispose of contents/container in accordance with national regulations.

Other label elements	additional information on label: For transportation, if the packaging meets LQ - limits. Otherwise according to ADR. Supplier information, including telephone no., business ID and website address. Braille symbol for blind persons - for retail sale. Mixture may be used only for purposes listed in Instructions for use. Symbol of recycling - according to the Act on Waste. Labelling according to firefighting regulations - standard CSN 65 0201 (Czech Rep) - sentence: Flammable of Hazard Class I Weight or volume, if it concerns mixtures intended for sale to customer.
2.3. Other hazards	As of date of preparing this safety data sheet, mixture or its constituents are not classified as PBT or vPvB. Constituents are not listed in Annex XIV or in the candidate list in Annex XIV of REACH Regulation.
Characteristics	Unit
Product density	0.9527 g/cm <sup>3</sup>
Volatile organics content - VOC	0.34 kg/kg
Total organic carbon - TOC	0.17731 kg/kg
Non-volatile content	66 %
Category: Not listed	Actual VOC content at application max. 323,92464,2 g/l

### SECTION 3: Composition/information on ingredients

3.1. Substances	Not applicable. Product is a mixture of several substances.
3.2. Mixtures	

Chemical characteristics:
Classification according to Regulation of European Parliament and Council (ES) no. 648/2004 on Detergents as amended:
Product includes the following compounds:

Description:
Glass Spray mix – mixture of compounds classified according to Regulation of European Parliament and Council (EC) no. 1272/2008, as amended, and according to Act no. 350/2011 of Coll., as amended.
Mixture includes the following compounds without dangerous additives:

Product identifier		Classification according to Regulation EC no. 1272/2008	Hazard statements (H-statements)	Labelling: Codes of pictograms and signal words	Concentration (concentration range)
Compound chemical identity	Index number CAS ES number REACH registration number				
Ethanol	603-002-00-5 64-17-5 200-578-6 01-2119457610-43	Flam. Liq. 2 Eye Irrit. 21	H225 H319	GHS02 GHS07	< 32%
1,2 - ethanediol	603-027-00-1 107-21-1 203-473-3 Not available	Acute Tox. 4	H302	GHS07	< 1%
Butanon	606-002-00-3 78-93-3 201-159-0 02-2119752535-35-0000	Flam. Liq. 2 Eye Irrit. 21 STOT SE 3	H225 H319 H336	GHS02 GHS07	< 1%

Full wording of hazard statements (H-statements) is listed in section 16.

#### SECTION 4: First aid measures

4.1.	Description of first aid measures	In case of health difficulties, uncertainty or an accident, seek medical assistance and provide the physician with this safety data sheet. Under all circumstances, it is necessary to provide victim with mental comfort and to prevent from cold. When providing first aid, pay attention to your own safety. First aid should not be provided at the site of accident, if the first aid provider can be contaminated.
	Description of first aid measures in case of inhalation	Move the victim to fresh air. Do not allow the victim to walk. Ensure the victim does not get cold, wash mouth with water, and ensure that medical treatment is provided.
	Description of first aid measures in case of skin contact	Remove all contaminated clothing. Wash the affected part of body by large amount of water. After wash treat by skin repair cream.
	Description of first aid measures in case of eye contact	Wash eyes with large amount of lukewarm water while holding eyelids open for about 15 minutes (in direction from the inner eye corner to the outside eye corner not to affect the other eye). If the victim wears eye lenses, remove them immediately. Seek a physician and show him the product label or this safety data sheet.
	Description of first aid measures in case of ingestion	Maintain the victim in mental comfort, and keep at warm place. Wash mouth with water (only if victim is conscious and has no convulsions). Do not induce vomiting. If possible, administer medicinal charcoal in the amount of 5 crashed tablets. Immediately seek medical attention, and show product label or product container or this material safety data sheet. Let the affected person drink about a half liter of water, wash mouth with potable water.

4.2.	Most important symptoms and effects, both acute and delayed:	The following symptoms may appear: Burning, lacrimation or redness in case of eye contact. Dry skin in case of skin contact. Gastrointestinal irritation and nausea in case of ingestion.
4.3.	Indication of any immediate medical attention and special treatment needed	If affected by the product, immediate medical attention or specific means to provide treatment are not necessary.

## SECTION 5: Firefighting measures

5.1. Extinguishing media		
.	Suitable extinguishing media:	CO <sub>2</sub> , powder or sprayed water jet. Fight a larger fire with sprayed water jet or alcohol resistant foam. Mixture is not classified as flammable. Adjust the extinguishing media according to burning materials in the surrounding.
	Unsuitable extinguishing media:	Directly applied water stream.
5.2.	Special hazards arising from the substance or mixture	If possible, remove closed containers with mixture from the area of fire and cool them with water or cover with foam. Extinguishing water should not get to soil, underground water or to water treatment system..
5.3.	Advice for firefighters	Commonly used protective equipment for fire-fighters when fire-fighting chemicals, breathing apparatus independent on surrounding air and radiant heat-resistant or heat-resistant protective suit. Cool containers with water stream. Do not inhale smoke created during fire. Ethanol vapours together with air create explosive mixture. Cool exposed containers with sprayed steam of water. Do not pour mixture to sewage.

## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	Protect yourself with personal protective equipment described in sections 7 and 8. During handling, ensure sufficient ventilation/local exhaust. Use personal protection equipment. Do not use close to sources of heat and fire. Prevent from contact with skin a eyes. Do not breath vapours or aerosols.
6.2. Environmental precautions	Prevent from entry to soil, underground/surface water and sewage. In case of release of large amount of product, mainly to sewage or waterways, notify firefighters, police or the regional office of environmental protection local water treatment competent body or the regional office of environmental protection.
6.3. Methods and material for containment and cleaning up	To contain, use adsorbent material binding liquids (e.g. sand, gravel, silica gel, binders of acids, universal binders). To dispose, transfer to suitable and tight containers, and proceed to disposal according to local legislation, see section 13. Ensure sufficient ventilation.
6.4. Reference to other sections	Information on safe handling: See section 7. Information on personal protective equipment: See section 8. Information on disposal: See section 13.

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling	Use only in well ventilated areas. <b>Keep container tightly closed.</b> Use suitable personal protection equipment. Do not breathe vapours. Prevent from increasing concentration of substance in working environment. Ensure local exhaust. Use suitable personal protection equipment for work. Maintain basic rules of hygiene and safety during work. Prevent from contamination of soil and release to surface or underground water and sewage.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed original containers at dry, cold and well ventilated area. Keep separate from food, feedstuffs and medications. Store out of reach by children.
7.3. Specific end use(s):	Glass spray

**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

Product includes the following substances or constituents with maximum permissible exposure limits (PEL) and maximum permissible concentrations (MPC) in work environment (air) according to Regulation of Government of Czech Republic no. 9/2013 of Coll. stipulating conditions of protection of occupational health (amendment of Regulation of Government of CR no. 361/2007 of Coll. as amended by Regulation of Government of CR no. 68/2010 of Coll. and Regulation of Government of CR no. 93/2012 of Coll.):

Name of chemical compound	CAS number	PEL (mg . m <sup>-3</sup> )	MPC (mg . m <sup>-3</sup> )	Coefficient for recalculation to ppm	Note
Ethylenglykol	107-21-1	50	100	0.394	D
Ethanol	64-17-5	1000	3000	0.532	-
2-Butanon	78-93-3	600	900	0.339	I

Note :

*D - substance significantly penetrates through skin during exposure.*

*S - substance has sensitizing effect.*

*P - serious delayed effects can not be excluded for this substance.*

*I - irritates mucous membranes, airways and skin.*

*P\* - result of examination for lead poisoning is deciding in the assessment of the exposure.*

*\* - When considering MPC, physical and chemical properties (e.g. flammability) are taken into account.*

Limit values of biological exposure tests:

Product does not include any substances or constituents with limit values of biological exposure tests according to Annex 2 of Decree no. 432/2003 of Coll. as amended according to Decree no. 107/2013 of Coll..

DNEL and PNEC values:

Name of chemical compound	CAS number	DNEL	
		Derived No Effect Level - derived concentration of substance at which there are no effects on humans	Short-term (S) Long-term (L) Repeated (R)

		Exposure route	Value	exposure
		oral (systemic effect)		
		inhalation (local + systemic effect)		
		inhalation (local + systemic effect)		

Name of chemical compound	CAS number	PNEC		
		Estimated concentration of substance at which there are no effects on the environment		
		Exposure environment	Value	Note
		fresh water		-
		sea water		-
		occasional spill		-

Indicative occupational limit exposure values according to Annex of Directive of Commission no. 2006/15/EC:

Name of chemical compound	CAS number	Indicative occupational limit exposure values				Note <sup>1)</sup>
		8 hours <sup>2)</sup>		short time <sup>3)</sup>		
		mg . m <sup>-3</sup> <sup>4)</sup>	ml . m <sup>-3</sup> (ppm)	mg . m <sup>-3</sup> <sup>4)</sup>	ml . m <sup>-3</sup> (ppm)	

- <sup>1)</sup> The note "skin" added to occupational exposure limit values indicates the possibility of serious penetration through skin.  
<sup>2)</sup> Measured or calculated in the relation to the reference time of eight hours as time weighed average.  
<sup>3)</sup> There should be no exposure above this limit value. It corresponds to 15 minutes, if not stated otherwise.  
<sup>4)</sup> mg/m<sup>3</sup> = milligrams per cubic meter of air at 20 °C and 101,3 kPa.

## 8.2. Exposure controls

Exposure controls – measures and appropriate engineering controls.	Ventilation, aspiration of dust at its source. Listed personal protection equipment must comply with Directive 89/686/EEC and CR Government Regulation no. 21/2003 of Coll. User of substance/mixture must determine the extent of personal protection equipment according to Act no. 262/2006 of Coll., Labour Code, as amended and Government Regulation no. 495/2001 of Coll. According to conditions at workplace. Assess the concentration of substance at workplace. Complete list of specific protective and preventive measures see section 7 of this material safety sheet. Apply general preventive measures for handling chemical substances. Do not eat, drink or smoke during work. After work and during breaks, wash your hands with warm water and soap, and apply skin-repair cream. Do not touch eyes with unclean hands.
Exposure controls– Individual protection measures, such as personal protective equipment	<u>Respiratory protection:</u> Under normal conditions of use (usual use) is not necessary. Use suitable respiratory protection, i.e. mask with A or AX type filter during prolonged work, insufficient ventilation, exceeding PEL, failure of control or ventilation system, increased concentration of vapour e.g. in poorly ventilated space, during

	<p>accidents, etc. according to CSN EN 14387:2004 (83 2220) Respiratory protection. Filters against gas and combined filters. Requirements, testing and labelling; isolated breathing apparatus. <u>Eyes/face protection:</u> Under normal conditions of use (usual use) is not necessary. During work with danger of physical impact by liquid (according to the nature of work performed) use protective glasses with side shields/enclosed glasses/protective face shield according to Czech standard ČSN EN 166:2002 (83 2401) Personal Equipment for Eye Protection . Basic stipulations. <u>Skin and hand protection:</u> Gloves must be marked by pictogram for chemical hazards according to Appendix C of ČSN EN 420:2004 (83 2300) – Protective gloves (Czech Republic standard). General requirements and testing methods with a code, e.g. F, J according to Appendix A to Czech standard ČSN EN 374-1:2004 (83 2310) Protective gloves against chemicals and micro-organisms. Part 1: Terminology and requirements. Gloves must be tested according to Czech standard ČSN EN 420 or ČSN EN 374-3:2004 (83 2310) Protective gloves against chemicals and micro-organisms. Part 3: Resistance to penetration of chemicals. Penetration time, as stipulated by the supplier, must be observed, and gloves must be replaced after its expiration. If damaged, gloves must be immediately replaced. In general: Selection of suitable gloves does not depend only on their material, but also on other qualitative properties that may significantly differ between individual manufacturers of this equipment. Since the mixture may be used together with other substances also for other purposes, it is not possible to determine the suitability of glove material for all purposes in advance, but it must be determined during the actual use. <u>Skin protection – other protection</u> Suitable protective working suit and antistatic shoes. Do not eat, drink or smoke during work. Remove dirty and contaminated parts of clothes. Wash contaminated clothes before using it again. Wash hands with warm water and soap before break, meal and after work. <u>Thermal hazards:</u> not required.</p>
Environmental exposure controls	Prevent from entry to sewage, surface/underground water. Keep limits for release.

## SECTION 9: Physical and chemical properties

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

Property	Value	Unit	Method
Appearance (at 20 °C)	liquid, clear		
Odour (smell)	used perfume-like		
Odour threshold	not available		
pH	not available		
Melting point / freezing point	not available	°C	
Initial boiling point and boiling point range	not available	°C	

Flash point	24-26	°C	
Evaporation rate	not available		
Flammability (solid, gas)	Flammable		
Upper/lower flammability or explosive limits	19-3.6 %		
Vapour pressure	Not listed		
Vapour density	Not listed		
Relative density	0.945 – 0.950	g/cm <sup>3</sup>	
Solubility(ies)	in water: unlimited in fats: none		
Partition coefficient: n-octanol/water	not available		
Auto-ignition temperature	430	°C	
Decomposition temperature	Not listed		
Viscosity	not available	cP	
Explosive properties	not explosive		
Oxidising properties	not oxidizing		

9.2. Other information	Temperature class: T2 Hazardous class: II

## SECTION 10: Stability and reactivity

10.1. Reactivity	There are no reactive compounds known that might come into contact with mixture during transportation, storage and use.
10.2. Chemical stability	Product is stable under normal conditions of use. Creating vapour concentration above the explosion limit, presence of sources of ignition
10.3. Possibility of hazardous reactions	Not known under recommended conditions of use
10.4. Conditions to avoid	Unsuitable conditions of storage – high temperature, vicinity of sources of heat or ignition; contact with strong alkali
10.5. Incompatible materials	Not known under recommended conditions of use
10.6. Hazardous decomposition products	Hazardous gases or vapours can be created during fire.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

#### Ethanol

- LD <sub>50</sub> , oral, rat (mg.kg <sup>-1</sup> ):	> 7060
- LD <sub>50</sub> , dermal, rabbit (mg.kg <sup>-1</sup> ):	6300
- LC <sub>50</sub> , inhalation, rat, for aerosol or particles (mg.l <sup>-1</sup> ):	----
- LC <sub>50</sub> , inhalation, rat, for gas and vapour (mg.l <sup>-1</sup> ):	20000/4 h.

Skin corrosion/irritation	Due to the concentration of active compound used, mixture is not classified as corrosive.
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Serious eye damage/irritation	Primary irritation to eyes: Causes serious irritation to eyes. Due to the concentration of active compound used, mixture is classified as irritant (Eye Irrit. 2; H319).
Respiratory or skin sensitisation	No sensitizing effects are known.
Germ cell mutagenicity	Active compound or mixture alone do not meet criteria of classification as mutagenic.
Carcinogenicity	Active compound or mixture alone do not meet criteria of classification as carcinogenic.
Reproductive toxicity	Active compound or mixture alone do not meet criteria of classification as toxic for reproduction.
STOT-single exposure	Data are not available. According to the specific concentration limit value in the REACH registration documentation, the product at a given concentration, however, does not meet criteria for classification as toxic for specific target organs (paragraph 3.2, table <sup>1)</sup> ).
STOT-repeated exposure	Data are not available. According to the specific concentration limit value in the REACH registration documentation, the product at a given concentration, however, does not meet criteria for classification as toxic for specific target organs (paragraph 3.2, table <sup>1)</sup> ).
Aspiration hazard	Data are not available.
Probable routes of exposure and symptoms corresponding to physical, chemical and toxicological properties	<u>Ingestion</u> - may cause pain in mouth, throat, esophagus and stomach; vomiting that includes blood <u>Inhalation</u> - low concentration (above PEL and MPC – par. 8.1) may cause irritation of wet tissue, inflammation of throat, severe coughing a dyspnoea. Severe exposure may result in injury of wet tissue. <u>Skin contact</u> - the extent of injury depends on concentration, pH, volume of solution and time length of the exposure. It may cause redness, pain, burning oedema or chemical burns. Longer/repeated skin contact may have a degreasing effect, and may result in dermatitis. <u>Eye contact</u> - may cause redness, pain or blurred vision. Solutions sprayed into eyes caused burning followed by only slight surface damage to corneal epithelium that was healed in the next day or two days without special treatment.

## SECTION 12: Ecological information

### 12.1. Toxicity

Name of chemical compound	CAS number	LD <sub>50</sub> oral rat (mg.kg <sup>-1</sup> )	LD <sub>50</sub> dermal rat or rabbit (mg.kg <sup>-1</sup> )	LC <sub>50</sub> inhalation rat (mg.m <sup>-3</sup> / 4 h)
sodium hypochlorite	7681-52-9	> 1.100	> 10.000 (rabbit)	> 10.5

Name of chemical compound	CAS number	LC <sub>50</sub> , 96 h fish (mg.l <sup>-3</sup> )	EC <sub>50</sub> , 48 h invertebrates (daphnia) (mg.l <sup>-3</sup> )	LC <sub>50</sub> , 72 h algae (mg.l <sup>-3</sup> )
Ethanol	64-17-5	1040	9248	Not available

12.2. Persistence and      Surfactants included in the mixture comply with regard to

degradability	biological degradability to Regulation of European Parliament and Council (EC) no. 648/2004 of March 3, 2004 on Detergents.
12.3. Bioaccumulative potential	Bioaccumulation in organism is not probable due to high solubility of product in water.
12.4. Mobility in soil	Not listed
12.5. Results of PBT and vPvB assessment	This mixture does not include any compounds evaluated as PBT or vPvB.
12.6. Other adverse effects	Prevent from entry of product to soil, underground/surface water and sewage.

### SECTION 13: Disposal considerations

13.1. Waste treatment methods	<p>Suitable methods to dispose substance or mixture and contaminated container:</p> <p>Dispose according to relevant regulations. Product may be incinerated while complying with local official regulations. Waste originator is responsible for waste sorting and its disposal. Prevent from leakage to sewage. After washing, transfer the container to waste collection site. Dispose the container contaminated by product at the dangerous waste collection site. Recycle according to valid legislative.</p>
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Classification according to Decree of Ministry of Environment of CR no. 381/2001 of Coll., Catalogue of Waste, List of Dangerous Waste, as amended by Decree no. 374/2008 of Coll.:

Waste catalogue number	Type of waste	Category of waste
Waste code of uncleaned contaminated container:		
Waste catalogue number	Type of waste	Category of waste
16 01 15	Antifreeze fluids other than those mentioned in 16 01 14	N
Waste code of cleaned and empty non-contaminated container:		
Waste catalogue number	Type of waste	Category of waste
15 01 02	Plastic packaging	O

Detailed information is listed in:

Act 185/2001 of Coll. on Waste as amended by Act 223/2015 of Coll.

Act 477/2001 of Coll. on Waste as amended by Act 62/2014 of Coll.

Act 201/2012 of Coll. on Protection of Air as amended by Act 87/2014 of Coll.

Act 254/2001 of Coll. on Water as amended by later regulations

Decree 383/2001 of Coll. on Details of Waste Handling as amended by Decree no. 212/2015 of Coll.

Decree no. 381/2001 of Coll., Catalogue of Waste, List of Dangerous Waste, as amended by Decree no. 374/2008 of Coll.:

### SECTION 14: Transport information

14.1 Land (road and railway) transportation (ADR/RID, GGBG):

14.1.1	UN number:	UN 1987
14.1.2	UN proper shipping name	“ ALCOHOLS , N.O.S.“ ( Ethanediol, Ethanol, Butanol)
14.1.3	Transport hazard class(es):	3
	ADR/RID-GGVS/E hazard class:	
	Classification:	
	Classification code:	
	Kemler number:	
	Side hazard:	
	Pictogram – number:	
	Code HI / UN:	
	Restriction code for tunnels:	3 ( D/E )
	Transport category:	
	Specific labelling:	
	Limited quantity (LQ):	
	Safety sign on packaging:	
14.1.4	Packing group:	III
14.1.5	Environmental hazards:	no
14.1.6	Special precautions for user:	5I Safety signs: 3  <b>Warning!</b> If packaging exceeds LQ limits, contact your safety advisor before any handling (filling, packing, shipping, transportation, acceptance) according to the applicable act of ADR/RID.

#### 14.2 Sea transportation ( IMDG-Code, GGBG ):

14.2.1	UN number:	
14.2.2	UN proper shipping name	
14.2.3	Transport hazard class(es):	
	IMDG-Code, GGBG hazard class:	
	Classification:	
	Classification code:	
	EMS group:	
	MFAG:	
	Pictogram – number:	
	Marine pollutant:	
	Specific labelling:	
	Safety sign on packaging:	
14.2.4	Packing group:	
14.2.5	Environmental hazards:	
14.2.6	Special precautions for user:	

#### 14.3 Air transportation ( ICAO, IATA-DGR, GGBG ):

14.3.1	UN number:	
14.3.2	UN proper shipping name	
14.3.3	Transport hazard class(es):	
	ICAO, IATA-DGR, GGBG	

	hazard class:	
	Classification:	
	Classification code:	
	Pictogram – number:	
	Specific labelling:	
	Safety sign on packaging:	
14.3.4	Packing group:	
14.3.5	Environmental hazards:	
14.3.6	Special precautions for user:	

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applied – no bulk load.

## SECTION 15: Regulatory information

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

Mixture under evaluation is not subject to regulations of European Parliament and Council (EC) no. 1005/2009 (on substances that deplete the ozone layer), no. 850/2004 (on persistent organic pollutants, amending Directive 79/117/EEC) and no. 649/2012 (concerning the export and import of hazardous chemicals).

Mixture does not include either substances listed in the candidate list (list of SVHC substances) for inclusion into Annex XIV of REACH Regulation.

The following acts, regulations and decrees were used to prepare this Safety Data Sheet:

- Regulation of European Parliament and Council (EC) no. 1272/2008 of December 16, 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) no. 1907/2006 as amended (CLP Regulation).
- Regulation of Commission (EU) no. 944/2013 of October 2, 2013 amending for the purpose of adaptation to scientific and technical progress the Regulation of European Parliament and Council (EC) no. 1272/2008 on classification, labelling and packaging of substances and mixtures
- Regulation of the European Parliament and of the Council (EC) no. 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorisation and restriction of chemicals as amended (Regulation REACH)
- Regulation of Commission (EU) no. 830/2015 of May 28, 2015 amending the Regulation of European Parliament and Council (EC) no. 1907/2006 on classification, labelling and packaging of substances and mixtures (Regulation REACH)
- Annex II to Regulation of Commission (EU) no. 830/2015 of May 28, 2015, stipulating requirements on preparing safety data sheets (SDS)
- Regulation of European Parliament and Council (EC) no. 648/2004 of March 31, 2004 on Detergents, as amended
- Regulation of European Parliament and Council (EC) no. 528/2012 of May 22, 2012 concerning the making available on the market and use of biocidal products as amended
- Commission Directive 2006/15/EC of February 7, 2006 on establishing a second list of indicative occupational exposure limit values for implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
- Act no. 350/2011 of Coll. on chemical substances and chemical preparations and on amendments to several acts (Act on Chemicals) as amended
- Act 120/2002 of Coll. on conditions for placing biocidal products and active substances on the market and on amendments to several related acts (update of no. 186/2004 of Coll., 125/2005 of Coll. and 297/2008 of Coll.) as amended
- Act no. 136/2010 of Coll. amending the Act no. 120/2002 of Coll. on conditions for placing biocidal products and active substances on the market and on amendments to several related acts as

amended by later regulations

- Act no. 267/2015 of Coll. of September 16, 2015 amending the Act no. 258/2000 of Coll. on protection of public health and on amendment of several related acts as amended by later regulations and other related acts

- Regulation of Government of Czech Republic no. 9/2013 of Coll. amending Regulation of Government no. 361/2007 of Coll. stipulating terms of protection of occupational health as amended by later regulations

Decree no. 107/2013 of Coll. of April 22, 2013 amending Decree no. 432/2003 of Coll. stipulating conditions of classification of work activities, limit values of biological exposure testing markers, conditions of sampling biological material to perform biological exposure testing and prerequisites of reporting work with asbestos and biological agents as amended

Act no. 185/2001 of Coll. on waste, as amended

- Act no. 223/2015 of Coll. of August 12, 2015 amending the Act no. 185/2001 of Coll. on waste and on amendment of several related acts as amended by later regulations

Act no. 94/2004 of Coll. on packaging, as amended

- Decree of Ministry of Environment of Czech Republic no. 381/2001 of Coll. stipulating the Catalogue of Waste, List of Dangerous Waste and lists of waste and states for the purpose of export, import, transportation of waste and issuing approval to export, import and transportation of waste (Catalogue of Waste) as amended

- Act 224/2015 of Coll. of August 12, 2015 on prevention of serious accidents caused by selected chemical substances or chemical mixtures

- Act no. 14/2007 of Collection of International Agreements, European Agreement of International Transportation of Dangerous Goods (ADR) declared in Geneva in September 30, 1957 and declared under no. 64/1987 of Coll. as amended

- Announcement of Ministry of Foreign Affairs no. 11/2015 of Collection of International Agreements, on declaring of acceptance of amendments and supplements to “Annex A - General Regulations Related to Dangerous Substances and Articles” and “Annex B - Regulations of Means of Transportation and on Transportation” of the European Agreement of International Road Transportation of Dangerous Goods (ADR)

15.2. Chemical safety assessment

Not performed

## SECTION 16: Other information

Information included here is based on our best knowledge and experience. Safety data sheet was prepared according to safety data sheets of raw material suppliers and applicable legislation. It includes information necessary to ensure safety and protection of occupational health and environment. The user is responsible for handling and specific use of the mixture.

Mixture has been assessed and classified according to Regulation of European Parliament and Council (EC) no. 1272/2008 as amended (article 9 - 16). During classification, additive (summation) method was used to evaluate danger for health and environment, data of tests to evaluate physical danger and also data of specific concentration limit of harmonized classification and of REACH registration documentation.

List of related hazard statements (H-statements) and other hazard label elements (EUH-statements):

H-statements:	H225	Highly flammable liquid and vapour
	H302	Harmful if swallowed
	H319	Causes serious eye irritation
	H336	May cause drowsiness or dizziness
EUH-statements:		

Important references to information and sources of data:

Information listed here includes data necessary to ensure safety and protection of occupational health and environment. User is responsible for handling and specific use of the mixture.

Sources of data:

Guidelines, regulations and directives of EC; Collection of Acts of Czech Republic; decrees of the following ministries of the Czech Republic: Ministry of Industry of Commerce, Ministry of Interior Affairs, Ministry of Exterior Affairs, Ministry of Environment and Ministry of Transportation and Communication; regulations of government of Czech Republic; data of SDS of suppliers; laboratory data, data of REACH registration documentation and data from literature.

Legend to abbreviations used:	
ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG-Code:	International Maritime Code for Dangerous Goods
ICAO:	International Civil Aviation Organization
IATA-DGR:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
CAS	Chemical Abstract Service - unique numeric identification used for chemicals, polymers, biological sequences, mixtures and alloys
ES number	Identification number of a chemical substance according to the following lists: EINECS (European Inventory of Existing Commercial Chemical Substances), ELINCS (European List of Notified Chemical Substances) and NLP (substances "No Longer polymers").
Index number	Identification number of substance according to the List of Notified Classified Substances.
PBT	Persistent, Bioaccumulative and Toxic - Substance persistent, bioaccumulative and toxic at the same time.
vPvB	very Persistent, very Bioaccumulative - Substance very persistent and very bioaccumulative
SVHC	Substance of Very High Concern – Substances evoking very high concern
PEL	Permissible exposure limit
MPC	Maximum permissible concentration of chemical substance in the air of workplace
DNEL	Derived No Effect Level - derived concentration of substance at which there are no undesirable effects on humans
PNEC	Predicted No Effect Concentration - estimated concentration of substance at which there are no effects on the environment
LC <sub>50</sub>	Lethal concentration, 50 % - concentration of substance that after administration causes death in 50 % of animals
LD <sub>50</sub>	Lethal dose, 50 % - dose of substance that after administration causes death in 50 % of animals
EC <sub>50</sub>	Effective concentration, 50 % - concentration of substance at which there is an effect on organism in 50 % of animals
IC <sub>50</sub>	Inhibitory concentration, 50 % - one half of maximum inhibitory concentration at which there is an effect on organism
Skin Corr. 1A, 1B	Skin corrosion, hazard classification 1A or 1B
Eye dam. 1	Serious eye damage, hazard classification 1
Eye Irrit. 2	Serious eye irritation, hazard classification 2

<p><b>Training advice:</b></p> <p>Workers coming into contact with hazardous substances must be made familiar by their employer to the necessary extent about effects of these compounds, ways of handling, protection measures, first aid principles, necessary reclamation procedures and with procedures in case of damage and accidents.</p> <p>Person handling this chemical agent must be familiar with safety rules and information listed in this Safety Data Sheet.</p> <p>Persons transporting hazardous substances must be familiar with guidelines during accidents according to regulations of ADR/RID.</p>
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SDS revision no.	

Previous revision:	Reasons for revision: