

905	i1 Sint-Denijs-Westrem	
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SEC	CTION 1: Identification of the subs	stance/mixture and of the company/undertaking
1.1	Product identifier	
		INVISIBLE SHIELD <sup>®</sup> Glass & Surface Coating / Surface Protectant Liquid - RTU
1.2	Relevant identified uses of the s	substance or mixture and uses advised against
1.2.1	1 Relevant uses	
		Coating agent
1.2.2	2 Uses advised against	
	j.	None known.
4.0	Details of the sumplice of the est	
1.3	Details of the supplier of the sat	Jarefin by ovve byba
	Company	Poolse-Winglaan 90 9051 Sint-Denijs-Westrem / BELGIUM Phone +32 9 228 33 23 Homepage https://www.jarefin.be/ E-mail INFO@UNELKO.BE
	Manufacturer	UNELKO CORPORATION 1616 W. Williams Dr. AZ 85027 Phoenix / USA Phone +1.480. 991.7272 Fax 480.483.7674 Homepage www.unelko.com E-mail info@unelko.com
	Address enquiries to	
	Technical information	info@unelko.be
	Safety Data Sheet	info@unelko.be
1.4	Emergency telephone number	
	Company	+32 9 228 33 23
SEC	CTION 2: Hazards identification	
2.1	Classification of the substance	or mixture [REGULATION (EC) No 1272/2008]
		Flam. Liq. 2: H225 Highly flammable liquid and vapour.
~ ~	l shal alamanta	
2.2	Label elements	The product is required to be labelled in accordance with regulation CLP.
	Hazard pictograms	
	······································	
	Signal word	DANGER
	Hazard statements	H225 Highly flammable liquid and vapour.
	Precautionary statements	<ul> <li>P102 Keep out of reach of children.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P501 Dispose of contents/container in accordance with local/national regulation.</li> </ul>
2.3	Other hazards	
	Physico-chemical hazards	Vapours may form explosive mixture with air.
		rapouro may torm oxproored mixture with an.

Further hazards were not determined with the current level of knowledge.

Other hazards



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## SECTION 3: Composition / Information on ingredients

#### 3.1 Substances

not applicable

## 3.2 Mixtures

#### The product is a mixture.

Substance
Ethanol
CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5
GHS/CLP: Flam. Liq. 2: H225
Dimethylpolysiloxanes
CAS: 94363-18-5

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Comment on component parts
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Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.

#### SECTION 4: First aid measures

4.1	Description of first aid measures General information	Take off contaminated clothing and wash before reuse.
	Inhalation	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
	Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
	Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
	Ingestion	Do not induce vomiting. Rinse mouth. Seek medical advice.

#### 4.2 Most important symptoms and effects, both acute and delayed

Cough Redness Nausea, vomiting.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Forward this sheet to your doctor.

### SECTION 5: Fire-fighting measures

5.1	Extinguishing media	
	Suitable extinguishing media	Foam, dry powder, water spray jet, carbon dioxide Alcohol-resistant foam.
	Extinguishing media that must not be used	Full water jet
5.2	Special hazards arising from the	substance or mixture
		Risk of formation of toxic pyrolysis products.

Risk of formation of toxic pyrolysis products. Carbon monoxide (CO) Carbon dioxide (CO2) Silicon compounds



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5.3	Advice for firefighters	
		Use self-contained breathing apparatus.
		Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
SEC	TION 6: Accidental release measur	res
6.1	Personal precautions, protective	equipment and emergency procedures
		Keep away from all sources of ignition. Ensure adequate ventilation. Wear suitable protective equipment. For personal protection see SECTION 8.
6.2	Environmental precautions	
		Do not discharge into the drains/surface waters/groundwater.
6.3	Methods and material for contain	ment and cleaning up
		Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.
6.4	Reference to other sections	
		See SECTION 8+13
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling	
		Use only in well-ventilated areas. Provide good room ventilation even at ground level (vapours are heavier than air). Avoid contact with eyes and skin. Use personal protective equipment. Keep out of reach of children and domestic animals.
		Keep away from open flames, hot surfaces and sources of ignition. Ignitable mixtures can be formed in the empty container. Use explosion-proofed equipment/fittings and non-sparkling tools. Ground/bond container and receiving equipment.
		Wash face and/or hands before break and end of work. Use barrier skin cream. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product.
7.2	Conditions for safe storage, inclu	ding any incompatibilities
		Keep only in original container. Provide solvent-resistant and impermeable floor.
		Do not store together with oxidizing agents. Do not store together with acids and alkalies. Do not store together with food and animal food/diet.
		Keep container tightly closed. Keep container in a well-ventilated place. Protect from heat/overheating and from sun. Keep in a cool place. Store in a dry place. Store in a dark place.



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

#### 8.1 Control parameters

8.2	Exposure controls	
	Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
	Eye protection	If there is a risk of splashing: safety glasses (EN 166:2001)
	Hand protection	Not required under normal conditions. In full contact: > 0.11 mm. butyl rubber, > 120 min (EN 374) The details concerned are recommendations. Please contact the glove supplier for further information.
	Skin protection	Solvent-resistant protective clothing (EN 340)
	Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
	Respiratory protection	Not required under normal conditions. In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
	Thermal hazards	not applicable
	Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.



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SEC	SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and chemical properties			
	Physical state	Liquid	
	Form	liquid	
	Color	clear	
	Odor	alcoholic	
	Odour threshold	No information available.	
	pH-value	No information available.	
	pH-value [1%]	3	
	Boiling point [°C]	78	
	Flash point [°C]	10	
	Flammability (solid, gas) [°C]	not applicable	
	Lower explosion limit	No information available.	
	Upper explosion limit	No information available.	
	Oxidising properties	no	
	Vapour pressure/gas pressure [kPa]	4.4	
	Density [g/cm³]	No information available.	
	Relative density	0.792	
	Bulk density [kg/m³]	not applicable	
	Solubility in water	100 g/l	
	Solubility other solvents	No information available.	
	Partition coefficient [n-octanol/water]	not applicable	
	Kinematic viscosity	not relevant	
	Relative vapour density	> 1	
	Evaporation speed	No information available.	
	Melting point [°C]	No information available.	
	Auto-ignition temperature [°C]	No information available.	
	Decomposition temperature [°C]	No information available.	
	Particle characteristics	No information available.	
9.2	Other information		
		none	
SEC	TION 10: Stability and reactivity		

# 10.1 Reactivity

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

## 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature). Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

Reactions with alkalies (lyes). Reactions with oxidizing agents. Reactions with acids.

## 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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10.5 Incompatible materials

See SECTION 10.3.

#### **10.6 Hazardous decomposition products**

No decomposition if used and stored according to specifications. In the event of fire: See SECTION 5.



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# SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Acute oral toxicity

Product		
ATE-mix, oral, > 5000 mg/kg		

Substance
Ethanol, CAS: 64-17-5
LD50, oral, Rabbit, 7060 mg/kg

#### Acute dermal toxicity

Product
Based on the available information, the classification criteria are not fulfilled.

Substance Ethanol, CAS: 64-17-5

Product

LD50, dermal, Rabbit, 7430 mg/kg

#### Acute inhalational toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Ethanol, CAS: 64-17-5
LC50, inhalative, Rat, 37620 mg/m³/10h

#### Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
Ethanol, CAS: 64-17-5
adverse effect observed

#### Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance		
Ethanol, CAS: 64-17-5		
no adverse effect observed		

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

	Substance	
	Ethanol, CAS: 64-	17-5
	no adverse effect	observed
Specific target org single exposure	gan toxicity —	Based on the available information, the classification criteria are not fulfilled.
Specific target org		Based on the available information, the classification criteria are not fulfilled.
Mutagenicity		Based on the available information, the classification criteria are not fulfilled.
Reproduction toxi	city	Based on the available information, the classification criteria are not fulfilled.
- Fertility		



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	Substance			
	Ethanol, CAS: 64-1	7-5		
	NOAEL, oral, mous	e, 20700 mg/kg bw/d (Effect on fertility), no adverse effect observed		
- Development				
	Substance			
	Ethanol, CAS: 64-1	Ethanol, CAS: 64-17-5		
	NOAEC, inhalative,	Rat, 30400 mg/m <sup>3</sup> (Effect on developmental toxicity), no adverse effect observed		
Carcinogenicity		Based on the available information, the classification criteria are not fulfilled.		
Aspiration hazard	ł	Based on the available information, the classification criteria are not fulfilled.		
General remarks				
		Toxicological data of complete product are not available.		
1.2 Information on	other hazards			
Endocrine disrup	ting properties	No information available.		
Other information	ı	none		
SECTION 12: Ecolog	ical information			
2.1 Toxicity				
	Substance			
	Ethanol, CAS: 64-1	7-5		
	LC50, (48h), Daphn	ia sp., > 100 mg/l		
	LC50, (96h), fish, >	100 mg/l		
	EC50, (96h), Algae, > 100 mg/l			
2.2 Persistence and	d degradability			
	0			
Behaviour in envi compartments	ironment	No information available.		
Behaviour in sew	age plant	No information available.		
Biological degrad	lability	94% (CAS 64-17-5)(Lit.)		
2.3 Bioaccumulativ	o notontial			

## 12.3 Bioaccumulative potential

log Pow: -0.32 (CAS 64-17-5) - Accumulation in organisms is not expected.

# 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

Ecological data of complete product are not available. Do not discharge product unmonitored into the environment or into the drainage.



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## SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

	Product		
		Coordinate disposal with the authorities if necessary.	
	Waste no. (recommended)	070704* 160305* 200113*	
	Contaminated packaging		
		Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.	
	Waste no. (recommended)	150110* packaging containing residues of or contaminated by hazardous substances	
SEC	TION 14: Transport information		
14.1	14.1 UN number or ID number		
	Transport by land according to ADR/RID	1170	
	Inland navigation (ADN)	1170	
	Marine transport in accordance with IMDG	1170	

Air transport in accordance with IATA 1170



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14.2	UN proper shipping name			
	Transport by land according to ADR/RID	Ethanol solution		
	- Classification Code	F1		
	- Label	•		
	- ADR LQ	11		
	- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D/E)		
	Inland navigation (ADN)	Ethanol solution		
	- Classification Code	F1		
	- Label	<b>8</b>		
	Marine transport in accordance with IMDG	Ethanol solution		
	- EMS	F-E, S-D		
	- Label	•		
	- IMDG LQ	11		
	Air transport in accordance with IATA	Ethanol solution		
	- Label	•		
14.3	Transport hazard class(es)	·		
	Transport by land according to ADR/RID	3		
	Inland navigation (ADN)	3		
	Marine transport in accordance with IMDG	3		
	Air transport in accordance with IATA	3		
14.4	Packing group			
	Transport by land according to ADR/RID	Ш		
	Inland navigation (ADN)	П		
	Marine transport in accordance with IMDG	Ш		
	Air transport in accordance with IATA	П		



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no		
	no	no no no

## 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

## 14.7 Maritime transport in bulk according to IMO instruments

No information available.

SEC	TION 15: Regulatory information	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	

EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
NATIONAL REGULATIONS (EU):	
- Observe employment restrictions for people	Observe employment restrictions for young people. SEVESO III (Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008: P5c FLAMMABLE LIQUIDS Qualifying quantity (tonnes), Column 2: 5 000 Qualifying quantity (tonnes), Column 2: 50 000
- VOC (2010/75/CE)	ca. 92 %
15.2 Chemical safety assessment	
	Chemical safety assessments for substances in this mixture were not carried out.
SECTION 16: Other information	

16.1 Hazard statements (SECTION 3)

H225 Highly flammable liquid and vapour.



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16.2 Abbreviations and acronyms:		
Date printed 09.02.2023, Revision 07.02.202	ADR = Accord européen relatif au transport international des marchandises Dangereuses Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European Chemicals Bureau EEC = European List of Notified Chemical Substances EL50 = Median effective loading ELINCS = European List of Notified Chemical Substances EmS = Emergency Schedules GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC-Code = International Maritime Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Database IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LDOAEL = Iowest-observed-adverse-effect level	
	LQ = Limited Quantities MARPOL = International Convention for the Prevention of Marine Pollution from Sł NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals STP = Sewage Treatment Plant TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative	ìips
16.3 Other information		
Classification procedure	Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)	
Modified position	SECTION 5 been added: Collect contaminated firefighting water separately, must a discharged into the drains.	not be
	SECTION 5 been added: Silicon compounds	
	SECTION 10 been added: No decomposition if used and stored according to speci	ifications.
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