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SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1	Product identifier				
		Invisible Shield [®] PRO 15 Protective Coating - RTU			
1.2	Relevant identified uses of	the substance or mixture and uses advised against			
1.2.	Relevant uses				
		Coating agent			
1.2.2	2 Uses advised against				
		None known.			
1.3	Details of the supplier of th	e safety data sheet			
	Company	Jarefin bv ovve bvba 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 num	ber			
	Company	+32 9 228 33 23			

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Liq. 2: H225 Highly flammable liquid and vapour.

2.2 Label elements

Hazard pictograms

Signal word Hazard statements Precautionary statements The product is required to be labelled in accordance with regulation CLP.



DANGER

H225 Highly flammable liquid and vapour.

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.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/national regulation.

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2.3 Other hazards

Physico-chemical hazards	Vapours may form explosive mixture with air.
Human health dangers	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Environmental hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
90 - < 95	Ethanol
	CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5
	GHS/CLP: Flam. Liq. 2: H225
1 - < 3	Acetone
	CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 STOT SE 3: H336 - EUH066
1 - < 3	Sulphuric acid
	CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8
	GHS/CLP: Skin Corr. 1A: H314
	SCL [%]: >= 15: Skin Corr. 1A: H314, 5 - <15: Eye Irrit. 2: H319, 5 - <15: Skin Irrit. 2: H315
< 1	Polysiloxane

Comment on component parts

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	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.	

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4.2 Most important symptoms and effects, both acute and delayed

By inhalation: Cough Sneeze Skin contact: Redness Itching Eye contact: Redness, tear flow, tissue swelling. Redness Tears If swallowed: 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.
		Carbon monoxide (CO)
		Carbon dioxide (CO2) Silicon compounds
		onicon compoundo
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 measu	ires
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 containment 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 7+8+13



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SEC	CTION 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 Avoid contact with eyes and skin. Use personal protective en Keep out of reach of children and domestic animals.		
		Keep away from open flames, hot surfaces and sources of in Ignitable mixtures can be formed in the empty container. Use explosion-proofed equipment/fittings and non-sparkling 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.		
7.3	Specific end use(s)			
		See product use, SECTION 1.2		

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES	
Acetone	
CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8	
Eight hours: 500 ppm, 1210 mg/m ³	
Sulphuric acid	
CAS: 7664-93-9, EINECS/ELINCS: 231-639-5, EU-INDEX: 016-020-00-8	
Eight hours: 0,05 mg/m ³ , thoracic fraction	

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	Exposure controls			
	Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurement requirements of DIN EN 482. For example, recommendation 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 conta information.	act the glove supplier	for further
	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 specifica depending on concentration and quantity handled. The resi chemicals should be ascertained with the respective suppli	istance of this equipr	
	Respiratory protection	Not required under normal conditions. In the event of occupational exposure limits being exceede appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)	d or of inadequate ve	entilation: wear
	Thermal hazards	not applicable		
	Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting of	discharge to air, wate	er and soil.



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SECTION 9: Physical and chemical proper	rties

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/cm ³]	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.
Other information	

9.2

none

SECTION 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.

Safety Data Sheet according to REACH-Regulation (EC) 1907/2006 amended by regulation (EC) 2020/878 (EU) Invisible Shield® PRO 15 Protective Coating - RTU



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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
Sulphuric acid, CAS: 7664-93-9
The study does not need to be conducted because the substance is classified as corrosive to the skin.
Acetone, CAS: 67-64-1
LD50, oral, Rat, > 2000 mg/kg
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.

Sulphuric acid, CAS: 7664-93-9
The study does not need to be conducted because the substance is classified as corrosive to the skin.
Acetone, CAS: 67-64-1
LD50, dermal, Rabbit, > 2000 mg/kg
Ethanol, CAS: 64-17-5
LD50, dermal, Rabbit, 7430 mg/kg

Acute inhalational toxicity

Product

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

Substance	
Acetone, CAS: 67-64-1	
LC50, inhalative, Rat, > 20 mg/l (4h)	
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.



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Su	bstance			
Eth	hanol, CAS: 64	-17-5		
no	adverse effect	observed		
Specific target organ single exposure	toxicity —	Based on the available information, the classification	criteria are not fulfilled.	
Specific target organ repeated exposure	toxicity —	Based on the available information, the classification	criteria are not fulfilled.	
Mutagenicity		Based on the available information, the classification	criteria are not fulfilled.	
Reproduction toxicity	1	Based on the available information, the classification	criteria are not fulfilled.	
- Fertility				
Su	bstance			
Eth	Ethanol, CAS: 64-17-5			
NC	NOAEL, oral, mouse, 20700 mg/kg bw/d (Effect on fertility), no adverse effect observed			
- Development				
Su	bstance			
Eth	hanol, CAS: 64	-17-5		
NC		ve, Rat, 30400 mg/m ³ (Effect on developmental toxicity), n	a advarsa offact absorva	1

Substan	ce
Ethanol,	CAS: 64-17-5
NOAEC,	, inhalative, Rat, 30400 mg/m ³ (Effect on developmental toxicity), no adverse effect observed
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	
	Toxicological data of complete product are not available.
2 Information on other ha	zards
Endocrine disrupting prop	erties The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other information	none
CTION 12: Ecological infor	rmation

SECTION 12: Ecological information

12.1 Toxicity

11.2

Substance
Sulphuric acid, CAS: 7664-93-9
LC50, (96h), Gambusia affinis, 42 mg/l
EC50, (24h), Daphnia magna, 29 mg/l
Acetone, CAS: 67-64-1
LC50, fish, > 1000 mg/l
EC50, Daphnia magna, > 1000 mg/l
IC50, Algae, > 1000 mg/l
Ethanol, CAS: 64-17-5
LC50, (48h), Daphnia sp., > 100 mg/l
LC50, (96h), fish, > 100 mg/l
EC50, (96h), Algae, > 100 mg/l

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12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	CAS 64-17-5: 94% (Lit.) CAS 67-64-1: 91%. 28d (OECD 301 B)(Lit.)

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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.

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.

	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



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SEC	TION 14: Transport information			
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		
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			
	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		



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14.4	Packing group				
	Transport by land according to ADR/RID	II			
	Inland navigation (ADN)	11			
	Marine transport in accordance with IMDG	II			
	Air transport in accordance with IATA	П			
14.5	Environmental hazards				
	Transport by land according to ADR/RID	no			
	Inland navigation (ADN)	no			
	Marine transport in accordance with IMDG	no			

Air transport in accordance with IATA 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.

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

		Chemical safety assessments for substances in this mixture were not carried out.
15.2	Chemical safety assessment	
	- VOC (2010/75/CE)	90 -< 95 %
	- 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
	NATIONAL REGULATIONS (EU):	
	TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
	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

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

EUH066 Repeated exposure may cause skin dryness or cracking.

- H336 May cause drowsiness or dizziness.
- H319 Causes serious eye irritation.
- H314 Causes severe skin burns and eye damage.
- H225 Highly flammable liquid and vapour.



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6.2 Abbreviations and acronyms:			
	ADD Accord ouropéen relatif ou transport interpotional des marches d		
	ADR = Accord européen relatif au transport international des marchand Route	ses Dar	igereuses pa
	RID = Règlement concernant le transport international ferroviaire de ma	rchandig	ses
	dangereuses	ronanaid	
	ADN = Accord européen relatif au transport international des marchand	ses dan	gereuses pa
	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		
	ECS0 = Median enecuve concentration ECB = European Chemicals Bureau		
	EEC = European Economic Community		
	EINECS = European Inventory of Existing Commercial Chemical Substa	ances	
	EL50 = Median effective loading		
	ELINCS = European List of Notified Chemical Substances		
	EmS = Emergency Schedules		
	GHS = Globally Harmonized System of Classification and Labelling of C	hemical	ls
	IATA = International Air Transport Association		
	IBC-Code = International Code for the Construction and Equipment of S	hips car	rrying
	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%		
	LD50 = Median lethal dose		
	LC0 = lethal concentration, 0%		
	LOAEL = lowest-observed-adverse-effect level		
	LL50 = Median lethal loading		
	LQ = Limited Quantities		
	MARPOL = International Convention for the Prevention of Marine Pollut	on from	Ships
	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 Che	micale	
	STP = Sewage Treatment Plant	mucais	
	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		

16.3 Other information

Classification procedure

Modified position

Copyright: Chemiebüro®

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)



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none