

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 1 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1


SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Identification of the product	
	Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate
	Chemical name:	- Not applicable
	Catalogue number:	- Not applicable
1.2	Respective identified purpose of the substance or mixtures and purposes that are not recommended	
	Use:	INVISIBLE SHIELD® Pre-Cleaner/Glass Restorer is formulated to deep clean, de-scale and restore glass. It removes organic and inorganic contaminants including soil, grime, calcium, minerals and other stains.
	Purposes that are not recommended:	-
-	The reasons for non-use	-
1.3	Information on the supplier submitting the Safety Data Sheet	
	Name of the company:	UNELKO Corporation
	Address	14641 N. 74th St. Scottsdale, AZ 85260
	Telephone:	480.991.7272
	Fax:	480.483.7674
	E-mail of the responsible person:	info@unelko.com
	Telephone number for medical information:	- Contact Unelko

SECTION 2 HAZARDS IDENTIFICATION		
2.1	Classification of the substance or mixture	
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)	
	Hazard Class and Category Code:	Hazard statement*:
	Eye irrit. 2	H318 Causes serious eye damage H302 Harmful if swallowed H312 Harmful if contact with skin
2.1.2	Additional information	
	The classification corresponds to valid EU regulations. It has been modified by data from professional literature and company data.	
*Full text regarding H and EUH statements is listed in Section 16.		
2.2	Labelling elements according to Regulation (EC) No 1272/2008 (CLP)	
	Identification of the product:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate
	Index number:	- Not applicable

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 2 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

Authorization number:	- Not applicable
Hazard pictograms:	
Signal Word:	Danger
Hazard statements:	H318 Causes serious eye damage H302 Harmful if swallowed H312 Harmful if contact with skin
Precautionary statements:	P102 Keep out of reach of children. P103 Read label before use. P280 Wear protective gloves/protective clothing/eye protection/face protection P264 Wash thoroughly after handling P305 + P351 + P310 – IF IN EYES: Remove contact lenses. Rinse cautiously with water for several minutes. If condition persists, immediately contact physician. P301 + P312 If swallowed: Call doctor physician if you feel unwell. P302 + P352 If on skin: Wash with plenty of soap and water. P501 Dispose of contents/container in accordance with national regulation. Use in a well-ventilated area. Do not inhale.
Additional information regarding hazards:	- Not applicable
2.3 Other hazards	-

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

CAS/ EC/ Index number	Registration number under REACH	% by weight	Name	Classification according to (EC)1272/2008 (CLP)
6153-56-6/ -/ -	-	< 10	Oxalic acid	H318 Can cause serious eye damage

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 FIRST AID MEASURES													
4.1	Description of the first-aid measures												
	<table border="1"> <tr> <td>General indications:</td> <td>Change soaked clothing.</td> </tr> <tr> <td>After inhalation:</td> <td>Avoid breathing vapor or mist. Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.</td> </tr> <tr> <td>After skin contact:</td> <td>Avoid contact with skin. Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.</td> </tr> <tr> <td>After eye contact:</td> <td>Avoid contact with eyes. Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.</td> </tr> <tr> <td>After ingestion:</td> <td>Product not for ingestion. If accidentally ingested, get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.</td> </tr> <tr> <td>Personal protection of an individual providing first aid:</td> <td>No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.</td> </tr> </table>	General indications:	Change soaked clothing.	After inhalation:	Avoid breathing vapor or mist. Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.	After skin contact:	Avoid contact with skin. Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.	After eye contact:	Avoid contact with eyes. Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.	After ingestion:	Product not for ingestion. If accidentally ingested, get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.	Personal protection of an individual providing first aid:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
General indications:	Change soaked clothing.												
After inhalation:	Avoid breathing vapor or mist. Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.												
After skin contact:	Avoid contact with skin. Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.												
After eye contact:	Avoid contact with eyes. Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.												
After ingestion:	Product not for ingestion. If accidentally ingested, get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.												
Personal protection of an individual providing first aid:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.												
4.2	Most important symptoms and effects, both acute and delayed												
	<table border="1"> <tr> <td>After inhalation:</td> <td>When the concentrations are high, and an individual is sensitive, the following may occur: cough, sneezing, headache.</td> </tr> <tr> <td>After skin contact:</td> <td>When in longer contact with skin, and if an individual is sensitive, the following may occur: redness, itch, burning sensation.</td> </tr> </table>	After inhalation:	When the concentrations are high, and an individual is sensitive, the following may occur: cough, sneezing, headache.	After skin contact:	When in longer contact with skin, and if an individual is sensitive, the following may occur: redness, itch, burning sensation.								
After inhalation:	When the concentrations are high, and an individual is sensitive, the following may occur: cough, sneezing, headache.												
After skin contact:	When in longer contact with skin, and if an individual is sensitive, the following may occur: redness, itch, burning sensation.												

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 4 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

	After eye contact:	Direct contact with eyes causes redness, burning, tearing, pain.
	After ingestion:	In case of swallowing large quantities, may cause nausea, vomiting, diarrhoea. May be irritating to mouth, throat and stomach.
4.3	Urgent medical assistance and special treatment	
	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	

SECTION 5 FIRE-FIGHTING MEASURES		
5.1	Extinguishing agents	
	Suitable media:	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable media:	None known.
5.2	Special exposure hazards arising from the substance or mixture itself	
	Hazardous combustion products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide. Do not inhale explosion and/or combustion gases.
5.3	Advice to fire-fighters	
	Fire-fighters should always wear fire-proof suit and open-circuit self-contained compressed air breathing apparatus in case of fire in closed area. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
5.4	Additional information	
	Prevent leakage and water used for extinguishing to cause pollution of watercourses by enclosing and covering drains. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.	

SECTION 6 ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions, protective equipment and procedures in case of hazard	
6.1.1	For individuals that are not part of emergency staff	
	Protective equipment:	Use the protective equipment in accordance with Section 8 of this document.
	Accident prevention procedures:	Provide adequate ventilation. Risk of slipping due to leakage/spillage of product.
	Procedures in case of accidents:	Secure the location, wear protective equipment, and prevent from further spreading. Remove all ignition sources, heat or spark. Ensure proper ventilation of the space. Prevent skin and eye contact. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist.
6.1.2	For emergency staff:	

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 5 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

	Personal protective equipment for fire-fighters in accordance with the provisions of Section 5 of this document. Personal protective equipment for other emergency staff in accordance with the statements of Section 8 of this document.	
6.2	Environmental precautions:	
	It is not likely that the product would enter the environment, but if it does, it is necessary to prevent it from reaching watercourses, drainage systems and the soil. In case of larger environmental contamination by this product, inform local authorities.	
6.3	Methods and materials to stop spreading and for cleaning up	
6.3.1	To contain:	Inert absorbent material (sand, earth, vermiculite or diatomaceous earth).
6.3.2	For cleaning up:	In case of spill or leak, stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. 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 contractor.
6.3.3	Other information:	Prevent the discharge of waste water into watercourses. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4	Reference to other sections	
	See Section 7 for information on safe handling. See Section 8 for information on personal protective equipment. See Section 13 for information on disposal.	

SECTION 7 HANDLING AND STORAGE

7.1	Precautions for safe handling	
7.1.1	Protective measures	
	Fire prevention measures:	Provide adequate ventilation. Keep away from ignition sources, open flame, heat. Do not smoke.
	Measures to prevent aerosol and dust generation:	Keep closed in its original package. Use in a well-ventilated area.
	Measures to protect the environment:	Prevent the product from reaching watercourses, sewerage and drainage systems.
7.1.2	Advice on general hygiene at the workplace	
	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Forbidden to eat, drink or smoke whilst handling. Wash your hands after handling the product and at the end of shift. Remove contaminated clothes and protective equipment before entering the eating area. Keep out of reach of children.	
7.2	The conditions for safe storage, considering potential incompatibilities	
	Technical measures and storage conditions:	Keep in a dry, cool, dark and well-ventilated area. Protected from direct sunlight, heat source and sparks, open flame.

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 6 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

Containers' materials:	Original manufacturer's packaging, or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Empty containers retain product residue and can be hazardous. Do not reuse container.
Requirements relating to storage rooms and containers:	Ensure proper ventilation.
Advice on storage equipping:	Floor drain hole should not be directed towards the sewerage. Store in accordance with local regulations. Store away from oxidizing materials, alkalis and food and drink.
Other information regarding the storage conditions:	-
7.3	Specific end use or uses
Recommendations:	See Section 1.2 and product labels/literature
Specific industry sector solutions	See Section 1.2 and product labels/literature

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION				
8.1	Control parameters			
Substance	CAS number	Exposure limit values (ELV/SELV)		Biological limit values
		ppm	mg/m ³	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Name of the substance:				
EC number:	- None	CAS number:	- None-Mixture	Not applicable
DNEL				
Industrial				
Exposure scenario:	Acute local effects	Acute systemic effects	Chronic local effects	Chronic systemic effects
Oral	No information	No information	No information	No information
Inhalational	No information	No information	No information	No information
Dermal	No information	No information	No information	No information
Key physical parameters: solubility, flammability, corrosion.	-			

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 7 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

User				
Exposure scenario:	Acute local effects	Acute systemic effects	Chronic local effects	Chronic systemic effects
Oral	No information	No information	No information	No information
Inhalational	No information	No information	No information	No information
Dermal	No information	No information	No information	No information

PNEC	
Environmental protection goal	PNEC
Fresh water	No information
Freshwater sediments	No information
Seawater	No information
Seawater sediments	No information
Food chain	No information
Micro-organisms in waste water treatment	No information
Soil (agricultural)	No information
Air	No information

8.2	Exposure control	
8.2.1	Appropriate engineering control	
	Measures to prevent exposure during recommended use:	Proper ventilation of areas where stored and handled. It is forbidden to eat, drink and smoke in work area. Wash your hand well after each interruption in operation. Avoid contact with skin and eyes. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
	Structural measures to prevent exposure:	In accordance with Section 7.
	Organisational measures to prevent exposure:	-
	Engineering measures to prevent exposure:	In accordance with Section 7.
8.2.2	Personal protection	
8.2.2.1	Eye and face protection:	Recommended eye and face protection or chemical splash goggles, when there is a risk of splashing. Ensure that eyewash stations and safety showers are close to the workstation location.
8.2.2.2	Skin protections: Normal work clothing recommended. Special clothing not required if operating in prescribed and recommended working conditions.	

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 8 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

	Hand protection:	Not required if operating in prescribed and recommended working conditions.
	Body protection:	Not required if operating in prescribed and recommended working conditions.
8.2.2.3	Respiratory protection:	Not required if operating in prescribed and recommended working conditions.
8.2.2.4	Thermal hazards:	No information
8.2.3	Environmental exposure control	
	Measures for prevention of substance/mixture exposure:	In accordance with Section 6.
	Structural measures to prevent exposure:	In accordance with Section 6.
	Organisational measures to prevent exposure:	In accordance with Section 6.
	Engineering measures to prevent exposure:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties		
		Value	Method
	Appearance:	Liquid	-
	Colour:	Clear to Cloudy	-
	Odour (odour threshold):	Vinegar [Slight]	-
	pH:	1 [Conc. (% w/w): 100%]	-
	Boiling point:	100°C (212°F)	-
	Melting point/freezing point	0°C (32°F)	
	Flash Point:	Non-flammable	-
	Evaporation rate:	Not determined	-
	Flammability (solid, gas):	Non-flammable	-
	Upper/lower flammability or explosive limits:	Not applicable	-
	Vapour Pressure:	Not applicable	-
	Vapour Density:	Not applicable	-
	Relative Density:	1.05	-
	Density:	No data	-
	Solubility:	Miscible in water	-
	Solubility in water:	Soluble	

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 9 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

	Partition Coefficient: n-octanol/water:	Not determined	-
	Auto-ignition temperature:	Not applicable	-
	Decomposition temperature:	No data	-
	Viscosity:	No data	-
	Explosive properties:	No data	-
	Oxidising properties:	No data	-
9.2	Other information		
	-		

SECTION 10 STABILITY AND REACTIVITY

10.1	Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
10.2	Chemical stability:	Stable under normal ambient conditions.
10.3	Possibility of hazardous reactions:	No dangerous reactions known if used as directed.
10.4	Conditions to Avoid:	-
10.5	Incompatible materials:	Oxidizing materials and alkalis.
10.6	Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: Decomposition products may include the following materials: carbon dioxide, carbon monoxide.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects					
	Acute toxicity:					
	Route of entry	Method	Organism	Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Result
	Ingestion (Oxalic acid):	No information	Rat	(LD50): 375 mg/kg [Rat].	No information	Acute oral toxicity
	Ingestion (Oxalic acid):	No information	Rabbit	(LD50): 20000 mg/kg [Rabbit].	No information	Acute dermal toxicity
	As formulated, recommended and directed for use as a cleanser for hard, inanimate surfaces, this product presents no toxicological concerns to the user. If misused, this SDS provides sufficient information for initial responders and physicians to determine the correct course of treatment.					
	Target organ toxicity – single exposure (STOT SE): There is no applicable data.					
		Specific effects		Exposed organ	Note	
	Ingestion:	No information		No information	No information	

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 11 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

As formulated, recommended and directed for use as a cleanser for hard, inanimate surfaces, this product presents no toxicological concerns to the user. If misused, this SDS provides sufficient information for initial responders and physicians to determine the correct course of treatment.

Target organ toxicity – repeated exposure (STOT RE): There is no applicable data.			
	Specific effects	Exposed organ	Note
Subacute oral	No information	No information	No information
Subacute dermal	No information	No information	No information
Subacute respiratory	No information	No information	No information
Subchronic oral	No information	No information	No information
Subchronic dermal	No information	No information	No information
Subchronic respiratory	No information	No information	No information
Chronic oral	No information	No information	No information
Chronic dermal	No information	No information	No information
Chronic respiratory	No information	No information	No information

As formulated, recommended and directed for use as a cleanser for hard, inanimate surfaces, this product presents no toxicological concerns to the user. If misused, this SDS provides sufficient information for initial responders and physicians to determine the correct course of treatment.

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)	
Carcinogenicity:	There is no applicable data.
Mutagenicity <i>in-vitro</i> :	There is no applicable data.
Genotoxicity	No information
Mutagenicity <i>in-vivo</i> :	No information
Mutagenic effect on reproductive cells	No information
Reproductive organ toxicity	There is no applicable data.
Teratogenicity:	There is no applicable data.
Total evaluation of CMR properties:	No known significant effects or critical hazards.

11.2	Practical experience:	
	Observations relevant to classification:	No information
	Other observations:	No information

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 12 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

11.3	General indications:
	The product was classified on the basis of the calculation procedure of the preparation directive. As formulated, recommended and directed for use as a cleanser for hard, inanimate surfaces, this product presents no toxicological concerns to the user. If misused, this SDS provides sufficient information for initial responders and physicians to determine the correct course of treatment.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	No information	No information	No information	No information	No information	No information
Algae	No information	No information	No information	No information	No information	No information
Micro-organisms	No information	No information	No information	No information	No information	No information
Chronic toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	No information	No information	No information	No information	No information	No information
Crustaceans (Daphnia)	No information	No information	No information	No information	No information	No information
Algae/aquatic plants	No information	No information	No information	No information	No information	No information
Other organisms	No information	No information	No information	No information	No information	No information

As formulated, recommended and directed for use as a cleanser for hard, inanimate surfaces, this product presents no ecological or environmental concerns greater than those of liquid cleaners, cream cleansers, soaps, detergents, emulsifiers or other cleaner/degreasers.

12.2 Persistence and degradability

Abiotic degradation					
	Degradation half-life	Method	Evaluation	Note	
Seawater	No information	No information	No information	No information	No information
Fresh water	No information	No information	No information	No information	No information
Air	No information	No information	No information	No information	No information
Soil	No information	No information	No information	No information	No information

Biodegradation

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 13 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

% of degradation	Time (days)	Method	Evaluation	Note		
No information	No information	No information	No information	No information		
No information	No information	No information	No information	No information		
12.3 Bioaccumulative potential						
Partition Coefficient octanol/water (log Pow)						
Value	Concentration	pH	°C	Method	Evaluation	Note
No information	No information	No information	No information	No information	No information	No information
Bioconcentration factor - BCF						
Value	Organism	Method	Evaluation	Note		
No information	No information	No information	No information	No information		
No information	No information	No information	No information	No information		
No information	No information	No information	No information	No information		
Chronic ecotoxicity						
Value	Dose	Exposure time	Organism	Method	Evaluation	Note
Chronic toxicity in fish	No information	No information	No information	No information	No information	No information
Chronic toxicity in crustacean (Daphnia)	No information	No information	No information	No information	No information	No information
12.4 Mobility in soil						
Recognised or assumed distribution in the environment:						
No information						
Surface tension:						
Value	°C	Concentration	Method	Note		
No information	No information	No information	No information	No information		
No information	No information	No information	No information	No information		
Adsorption/desorption						
Transport	A/D coefficient Henry's cons.	log Pow	Volatility	Method	Note	

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 14 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

Soil-water	No information	No information	No information	No information	No information
Water-air	No information	No information	No information	No information	No information
Soil-air	No information	No information	No information	No information	No information

12.5	PBT and vPvB Assessment results
	No information

12.6	Other adverse effects
	<p>No known significant effects or critical hazards.</p> <p>As formulated, recommended and directed for use as a cleanser for hard, inanimate surfaces, this product presents no ecological or environmental concerns greater than those of liquid cleaners, cream cleansers, soaps, detergents, emulsifiers or other cleaner/degreasers.</p>

SECTION 13 DISPOSAL CONSIDERATIONS	
---	--

13.1	Methods for handling waste
	This SDS provides sufficient information regarding the composition of the product for users to consult with appropriate regional or national authorities for disposal of the product.

13.1.1	Disposal of products/packaging
	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

13.1.2	Waste key number:
	-

13.1.3	Methods of waste treatment:
	-

13.1.4	Possibility of spilling into the sewer:
	Forbidden to empty into the sewers, drainage systems or watercourses.

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 15 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

13.1.5	Other disposal recommendations:
	-

SECTION 14 TRANSPORT INFORMATION

Transport of goods by roads (ADR)

UN number:	NOT CLASSIFIED AS "DANGEROUS GOODS"
Proper shipping name UN:	-
Transport hazard class(ess):	-
Packing group:	-
Environmental hazard:	No
Specific user precautions:	-

Transport of goods by rail (RID)

UN number:	NOT CLASSIFIED AS "DANGEROUS GOODS"
Proper shipping name UN:	-
Transport hazard class(ess):	-
Packing group:	-
Environmental hazard:	No
Specific user precautions:	-

Transport of goods by inland waterways (ADN)

UN number:	NOT CLASSIFIED AS "DANGEROUS GOODS"
Proper shipping name UN:	-
Transport hazard class(ess):	-
Packing group:	-
Environmental hazard:	No
Specific user precautions:	-

Transport of goods by sea (IMDG)

UN number:	NOT CLASSIFIED AS "DANGEROUS GOODS"
Proper shipping name UN:	-
Transport hazard class(ess):	-
Packing group:	-
Environmental hazard:	No
Specific user precautions:	-

Transport of goods by air (ICAO-TI/IATA-DGR)

UN number:	NOT CLASSIFIED AS "DANGEROUS GOODS"
Proper shipping name UN:	-
Transport hazard class(ess):	-
Packing group:	-

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 16 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

Environmental hazard:	No
Specific user precautions:	-
Additional information:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15 REGULATORY INFORMATION

15.1	Regulations in the area of safety, health, and environment/specific provisions for the substance or mixture	
	Authorizations and/or use restrictions	
	Authorizations:	There are no applicable authorizations and/or use restrictions for this product, beyond those specified elsewhere in this SDS or below. (EU regulations as specified remain as listed.)
	Restrictions:	No information
	EU regulations:	EC No. 1272/2008, CLP ATP 1 790-2009, CLP ATP corr758-1013, CLP ATP 2 286-2011, CLP ATP 2 286-2011, CLP ATP 487-2013, CLP ATP 5 944-2013., REACH Regulation, REACH ATP1 (340-2008), REACH ATP2 (440-2008), REACH ATP3 (552-2009), REACH ATP4 (761-2009), REACH ATP5 (453-2010), REACH ATP6 (109-2012). Regulation (EC) No 648/2004. European Agreement Concerning the International Carriage of Dangerous Goods by Road-ADR , Dangerous Goods by Rail-RID.
	Information (Directive1999/13/EC) on the limitation of emissions of volatile organic compounds (VOC):	No data.
	National regulations:	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4.
15.2	Chemical Safety Assessment	
	No data	

SECTION 16 OTHER INFORMATION

16.1	Revision indicators:	None
16.2	Abbreviations:	IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization GHS: Globally Harmonized System of Classification and Labelling of Chemicals LC50: Lethal concentration, 50 percent LD50: Lethal Dose, 50 percent

MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 17 of 17

Trade name:	Invisible Shield® Glass Pre-Cleaner/ Restorer- 3:1 Concentrate				
Product code:	-	Date of issue:	15/06/2018	Issue No:	1

16.3	Key literature and sources of data:	Regulation (EC) No 1272/2008, CLEAN-X® Lime Scale Remover RTU, 15.08.2013.
16.4	Classification and use of classification procedures for mixtures according to the CLP	
	Classification according to the CLP	
	Eye irrit. 2, H319	According to original MSDS.
16.5	Appropriate H statements (number and full text)	
	H:	-
16.6	Training advice:	-
16.7	Further information:	-

APPENDIX:
EXPOSURE SCENARIOS IN ACCORDANCE WITH THE CHEMICAL SAFETY REPORT.
-