

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

Page 1 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Identification of the product	
	Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)
	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:	Ready-to-use spray & wipe dry cleaner for glass and surfaces - Cleans without streaking or smearing, and leaves a water, soil & stain repellent finish for easier next-time cleaning.
	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 NV
	Address	Leenstraat 22, 9750 Zingem, BELGIUM
	Telephone:	+32 (0)9 384 68 21
	Fax:	+32 (0)9 384 68 33
	E-mail of the responsible person:	info@unelko.be
	Emergency telephone number:	+32 (0)70 245 245 (24h)
	Telephone number for medical information:	- Contact Unelko NV

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*:
	-	The product is not classified as hazardous.
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:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)
	Index number:	- Not applicable
	Authorization number:	- Not applicable

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

Page 2 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

Hazard pictograms:	- Not applicable
Signal Word:	- Not applicable
Hazard statements:	- Not applicable
Precautionary statements:	P102 Keep out of reach of children. P501 Dispose of contents/container in accordance with national regulation.
Additional information regarding hazards:	-
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)
-	-	-	-	-

** There are no 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	
	General indications:	-
	After inhalation:	Avoid breathing vapor or mist. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	After skin contact:	Avoid contact with skin. If excessively contacted, remove contaminated clothing and shoes. Flush contaminated skin with plenty of water for at least 10-15 min. Get medical attention if symptoms occur.
	After eye contact:	Avoid contact with eyes. If accidentally contacted, wash your hands, hold the eyelids open with clean fingers and flush the eye with lukewarm water for at least 10-15 min. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	After ingestion:	Product not for ingestion. If accidentally ingested, do not induce vomiting unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth out with water, then give small quantities of water to drink. Seek medical help immediately and show the package or label to the physician. Do not give an unconscious person any food or drink.
	Personal protection of an individual providing first aid:	- When used as directed by labels, no personal protection is required.
4.2	Most important symptoms and effects, both acute and delayed	

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

Page 3 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

	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 eye contact:	Direct contact with eyes may cause redness, burning, tearing.
	After ingestion:	In case of swallowing large quantities, may cause nausea, vomiting, diarrhoea, abdominal pain.
4.3	Urgent medical assistance and special treatment	
	Treat symptomatically.	

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:	No specific fire or explosion hazard.
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.	
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. Do not inhale vapours/mist. Prevent skin and eye contact.
6.1.2	For emergency staff:	

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

Page 4 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	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, non-combustible absorbent material (sand, earth, vermiculite or diatomaceous earth).
6.3.2	For cleaning up:	In case of spill or leak, wash spillages into an effluent treatment plant or proceed as follows. Scatter over it some inert, non-combustible absorbent material such as sand, earth, vermiculite or diatomaceous earth, and pick up mechanically and place in a container for disposal according to local regulations.
6.3.3	Other information:	Prevent the discharge of waste water into watercourses.
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. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.
7.1.2	Advice on general hygiene at the workplace	
	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	

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

Page 5 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

Technical measures and storage conditions:	Keep in dry, cool, dark and well-ventilated area. Protected from direct sun light exposure, heat source and sparks, open flame. Containers have to be sealed tightly and set upright vertically.
Containers' materials:	Original manufacturer's packaging. Do not store in unlabeled containers.
Requirements relating to storage rooms and containers:	Ensure proper ventilation. Do not store together with oxidizing agents. Store away from food and drink.
Advice on storage equipping:	Floor drainhole should not be directed towards the sewerage.
Other information regarding the storage conditions:	-
7.3	Specific end use or uses
Recommendations:	-
Specific industry sector solutions	-

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 (Sodium hydroxide)				
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.		-		
User				
Exposure scenario:	Acute local effects	Acute systemic effects	Chronic local effects	Chronic systemic effects

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

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

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. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Structural measures to prevent exposure:	In accordance with Section 7.
Organisational measures to prevent exposure:	-
Engineering measures to prevent exposure:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Ensure that eyewash stations and safety showers are close to the workstation location.

8.2.2 Personal protection

8.2.2.1	Eye and face protection:	Not required if operating in prescribed and recommended working conditions. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
8.2.2.2	Skin protections: 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 7 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	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 (Clear)	-
	Colour:	None	-
	Odour (odour threshold):	None	-
	pH:	6 [Conc. (% w/w): 1%]	-
	Boiling point:	100°C (212°F)	-
	Melting point/freezing point	Not applicable	
	Flash Point:	Non-flammable	-
	Evaporation rate:	1 (Water = 1)	-
	Flammability (solid, gas):	Non-flammable	-
	Upper/lower flammability or explosive limits:	Not applicable	-
	Vapour Pressure:	Not applicable	-
	Vapour Density:	Not applicable	-
	Relative Density:	1	-
	Density:	No data	-
	Solubility in water:	Soluble in water	-
	Partition Coefficient: n-octanol/water:	No data	-

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

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

	Auto-ignition temperature:	No data	-
	Decomposition temperature:	No data	-
	Viscosity:	Water	-
	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 conditions.
10.3	Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4	Conditions to Avoid:	No specific data.
10.5	Incompatible materials:	Oxidizing materials.
10.6	Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 TOXICOLOGICAL INFORMATION					
11.1 Information on toxicological effects					
Acute toxicity: There is no applicable data.					
Route of entry	Method	Organism	Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Result
Ingestion:	No information	No information	No information	No information	No information
Skin contact	No information	No information	No information	No information	No information
Inhalation:	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 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	
Skin contact:	No information		No information	No information	
Inhalation:	No information		No information	No information	

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

Page 10 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

Chronic oral	No information	No information	No information	No information	No information	No information
Chronic dermal	No information	No information	No information	No information	No information	No information
Chronic respiratory	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 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> :	There is no applicable data.
Mutagenic effect on reproductive cells	There is no applicable data.
Reproductive organ toxicity	No information
Teratogenicity:	There is no applicable data.

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

Page 11 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

	Total evaluation of CMR properties:	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.
11.2	Practical experience:	
	Observations relevant to classification:	No information
	Other observations:	No information
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
Crustaceans	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
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					

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

Page 12 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

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

Biodegradation

% 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

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

Page 13 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

	No information	No information	No information	No information	No information
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	Adsorption/desorption				
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Transport	A/D coefficient Henry's cons.	log Pow	Volatility	Method	Note
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
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	No information
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12.6	Other adverse effects
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	<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>
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SECTION 13 DISPOSAL CONSIDERATIONS	
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13.1	Methods for handling waste
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	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.
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13.1.1	Disposal of products/packaging
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	<p>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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</p>
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13.1.2	Waste key number:
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MATERIAL SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 (CLP)

Page 14 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

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.
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:	-

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

Page 15 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

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:	-
Environmental hazard:	No
Specific user precautions:	-
Additional information:	Specific user precautions: 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: Chemical Weapons Convention List Schedule I Chemicals: Not listed Chemical Weapons Convention List Schedule II Chemicals: Not listed Chemical Weapons Convention List Schedule III Chemicals: Not listed
	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): Not applicable.
	National regulations: EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4.

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

Page 16 of 16

Trade name:	REPEL™ Glass & Surface Cleaner - RTU (Ready-to-Use)				
Product code:	-	Date of issue:	23/12/2015	Issue No:	1

15.2	Chemical Safety Assessment
	No information.

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
16.3	Key literature and sources of data:	Regulation (EC) No 1272/2008, REPEL™ Dual-Action Auto Glass Cleaner - RTU, 05.03.2013.
16.4	Classification and use of classification procedures for mixtures according to the CLP	
	Classification according to the CLP	
	The product is not classified as hazardous.	-
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.
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