

 Quality Tools for Smart Cleaning	SAFETY DATA SHEET Unger Resin UE (US-CA-MX / EN)	 Quality Tools for Smart Cleaning
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The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued	06.12.2018
Revision date	05.12.2019

1.1. Product identifier

Product name	Unger Resin UE (US-CA-MX / EN)
Synonyms	Rinse 'n' Go Spotless Car Wash System / Rinse 'n' Go Spotless Car Wash System - Resin Filter Replacement / Ultra Resin packs
Article no.	DI10U / DC225 / HP06T / HP12T / HP12C / HP24T / HP 24C / HP06K / HPB06 / HPB24 / DIR22 / DIC22 / DCC25 / DCR22 / 17617 / 17567 / 975400 / 975410 / 975410B / 975410D / 975410J / 975420 / 975430 / DIUH1, DIUH2, DIUH3, UHP01, UHP03, UHP3C

1.2. Relevant identified uses of the substance or mixture and uses advised against

Function	Description: Ion exchange
Product group	Cleaning agents
Use of the substance / preparation	Demineralization
Uses advised against	No specific uses advised against are identified.
The chemical can be used by the general public	Yes

1.3. Details of the supplier of the safety data sheet

Company name	Unger Enterprises LLC
Office address	425 Asylum Street
Postcode	06610
City	Bridgeport, CT
Country	United States of America
Telephone number	+1 800 431 2324
Fax	+1 800 367 1988

Email	compliance@ungerglobal.com
Website	http://www.ungerglobal.com

1.4. Emergency telephone number

Identification, comments	For Hazardous Materials [or Dangerous Goods] Incident - Spill, Leak, Fire, Exposure, or Accident - Call CHEMTREC Day or Night. Within USA and Canada: 1-800-424-9300 CCN726541 or +1 703-527-3887 (collect calls accepted). Within Mexico, please call + 1 203 366 4884 (collect calls accepted) between 8:30 am – 5:00 pm Eastern Time Zone (EST/EDT).
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP classification, comments	Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.
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2.2. Label elements

Composition on the label	Cation exchange resin 60 % wt/wt, Anion exchange resin 40 % wt/wt
Precautionary statements	P102 Keep out of reach of children. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Physicochemical effects	Spilled resin is a slipping hazard.
Health effect	Resin can cause eye and skin irritation, avoid eye and skin contact.
Environmental effects	Cf. section 12 for information on ecology.
Symptoms and effects of potential misuse	No information required.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Cation exchange resin (US)	CAS No.: 69011-18-3	Eye Irrit. 2; H319	60 % wt/wt	
Anion exchange resin (US)	CAS No.: 69011-20-7	Skin Irrit. 2; H315 Eye Irrit. 2; H319	40 % wt/wt	
Description of the mixture	Spherical particles 0,2-0,4 mm. Solid. Amber. 0% of the mixture consists of ingredients(s) of unknown toxicity.			

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Place unconscious person on the side in the recovery position and ensure
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	breathing can take place. If medical advice is needed, have product container or label at hand.
Inhalation	Due to the physical form the risk of inhalation is minimal. IF INHALED: Move into fresh air and keep at rest.
Skin contact	Wash skin with soap and water.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.
Ingestion	Immediately rinse mouth and drink plenty of water (7-10 fl. oz.). Never give liquid to an unconscious person. DO NOT INDUCE VOMITING! If medical advice is needed, have product container or label at hand.

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

Acute symptoms and effects	Cf. section 11.1 - information on toxicological effects.
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4.3. Indication of any immediate medical attention and special treatment needed

Specific details on antidotes	Decontamination, symptomatic treatment. No special antidote known.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Product doesn't ignite. Use fire-extinguishing media appropriate for surrounding materials.
Improper extinguishing media	Water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable.
Hazardous combustion products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Hydrocarbons. Organic decomposition products. Sulfur dioxide (SO ₂). Sulfur trioxide (SO ₃).

5.3. Advice for firefighters

Personal protective equipment	In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Avoid dust formation. Avoid contact with eyes and skin.
Personal protection measures	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
Hazardous combustion products	Cf. section 5
For emergency responders	In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.

6.2. Environmental precautions

Environmental precautionary measures Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Cleaning method Sweepup or pickup with an industrial vacuum cleaner, store in closed container for disposal.

6.4. Reference to other sections

Other instructions Cf. section 8 for personal protection, and section 13 for waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Observe good chemical hygiene practices. Avoid contact with eyes and prolonged skin contact. Avoid eating, drinking and smoking when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store at moderate temperatures in dry, well ventilated area.

Conditions for safe storage

Requirements for storage rooms and vessels Storage in gateways, passages, stairways, hallways open to public, roofs, attics, cellars and workrooms is not advisable.

Advice on storage compatability No incompatibilities known.

7.3. Specific end use(s)

Recommendations Cf. section 1.2

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Biological limit value Recommended monitoring procedures: NIOSH 0500: Total particulates not otherwise regulated.
OSHA PV2121: Gravimetric determination.

8.2. Exposure controls

Precautionary measures to prevent exposure

Organisational measures to prevent exposure Thoroughly clean hands, forearms, and face after handling of the product, before eating, drinking and lavatory use, and at the end of the work shift.

Technical measures to prevent exposure Use engineering controls to reduce air contamination to permissible exposure level.

Eye / face protection

Eye protection	Wear approved chemical safety goggles where eye exposure is reasonably probable.
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Hand protection

Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
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Skin protection

Skin protection (except hands)	Generally regular work clothing sufficient.
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Respiratory protection

Respiratory protection	Under normal conditions of use respiratory protection should not be required. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).
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Hygiene / environmental

Specific hygiene measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.
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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Spherical particles 0,2-0,4 mm. Solid.
Colour	Amber.
Odour	Almost odourless.
pH	Status: In delivery state Comments: No data recorded. Status: In aqueous solution Value: 6 - 8 Method: aqueous suspension
Melting point / melting range	Comments: No data recorded.
Boiling point / boiling range	Comments: No data recorded.
Flash point	Value: > 230 °C Comments: Dry product beginning to inflame
Evaporation rate	Comments: No data recorded.
Flammability (solid, gas)	No data recorded.
Vapour pressure	Comments: No data recorded.
Vapour density	Comments: No data recorded.
Relative density	Value: 1,2 g/cm ³ Temperature: 20 °C
Solubility in water	Unlimited miscible

Spontaneous combustability	Value: > 500 °C
Decomposition temperature	Comments: No data recorded.
Viscosity	Comments: No data recorded.
Explosive properties	Not explosive
Oxidising properties	Not oxidizing

9.2. Other information

Softening point	Comments: No data available
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Physical hazards

Content of VOC	Comments: No data available
Particle size	Comments: No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable in normal conditions.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions under regular storage and handlings conditions known.
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10.4. Conditions to avoid

Conditions to avoid	Heating.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising substances.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x). Sulphurous gases (SO _x). Organic decomposition products.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other information regarding health hazards

Inhalation	No specific health warnings noted.
Skin contact	No specific health warnings noted. Prolonged contact may cause redness and

	irritation.
Eye contact	No specific health warnings noted. Prolonged contact may cause redness and/or tearing.
Ingestion	No specific health warnings noted. The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhea.
Sensitisation	No specific health warnings noted.
Mutagenicity	No specific health warnings noted.
Carcinogenicity, other information	No specific health warnings noted.
Teratogenic properties	No specific health warnings noted.
Reproductive toxicity	No specific health warnings noted.
STOT-single exposure	No data available, probably no subchronic toxicity
STOT-repeated exposure	No data available, probably no chronic toxicity
Aspiration hazard	Depending on the product's properties - solid spherical particles of 0.2-0.4 mm - aspiration is technically not feasible.

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability, comments	The product is not biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulating.
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12.4. Mobility in soil

Mobility	Not relevant, due to the form of the product.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	This product does not contain any PBT or vPvB substances.
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12.6. Other adverse effects

Ozone depletion potential	Comments: Ozone depletion potential not known
Photochemical ozone creation potential	Comments: Ozone formation potential not known
Global warming potential	Comments: Global greenhouse effect not known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Dispose of waste and residues in accordance with local authority requirements. No specific disposal method required.
Relevant waste regulation	USA: Federal waste regulation: 40 CFR 261 Canada: Canadian Environmental Protection Act (CEPA 1999; s.s..1999, c.33) Part 7 Controlling Pollution and Managing Wastes. Mexico: Regulation of the General Law of Ecological Balance and Environmental Protection in Hazardous Waste.
Product classified as hazardous waste	No
Packaging classified as hazardous waste	No

SECTION 14: Transport information

14.1. UN number

Comments	No recommendation given.
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14.2. UN proper shipping name

Comments	No recommendation given.
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14.3. Transport hazard class(es)

Comments	No recommendation given.
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14.4. Packing group

Comments	No recommendation given.
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14.5. Environmental hazards

Comments	No recommendation given.
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14.6. Special precautions for user

Special safety precautions for user	No recommendation given.
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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Product name	No recommendation given.
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Additional information

Additional information	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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ADR/RID Other information

ADR Other information	No recommendation given.
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ADN Other information

Other information	No recommendation given.
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IMDG Other information

IMDG Other information

No recommendation given.

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

References (laws/regulations)

International Inventories

USA: All compounds are listed on the TSCA Inventory

Canada: All components are listed either on the DSL or NDSL.

Regulations of the United States of America:

29 CFR 1910.1200, Subpart Z (Toxic and Hazardous Substances), App. A (Health Hazards), App B (Physical Criteria), App C (Allocation of Label Elements), App D (Minimum Information for a SDS), App E (Trade Secret), App F (Carcinogenicity).

US Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories:

Acute Health Hazard Yes

Chronic Health Hazard No

Fire Hazard No

Sudden release of pressure hazard No

Reactive Hazard No

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations:

This product does not contain any substances regulated by state right-to-know regulations.

Regulations of Canada:

Workplace Hazardous Materials Information System (WHMIS 2015), adoption to the Globally Harmonized System (GHS).

Hazardous Products Act (R.S.C., 1985, c.H-3), last amended Feb 11, 2015.

Hazardous Products Regulation (SOR / 2015-17), last amended Feb 11, 2015.

Regulations of Mexico:

Official Mexican Standard NMX-R-019-SCFI-2011, harmonized system of classification and hazard communication of chemicals [Globally Harmonized System (GHS)] (DOF, 29-VI-2011).

Official Mexican Standard NOM-018-STPS-2000, system for the identification and communication of hazards and risks from hazardous chemicals in the workplace (DOF, 27-X-2000).

15.2. Chemical safety assessment

Chemical safety assessment performed	No
Chemical safety assessment	No data recorded.
Exposure scenarios for mixture	No
Exposure scenario comments	No recommendation given.

SECTION 16: Other information

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
List of relevant H-phrases (Section 2 and 3)	H315 Causes skin irritation. H319 Causes serious eye irritation.
Training advice	Not relevant.
Recommended restrictions on use	Not relevant.
Last update date	05.12.2019
User notes	In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material, as far as not expressly stated otherwise.
Version	1
Comments	Last Update Reason: Product names and numbers added.