AC
the art of concrete

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product

Product Name: AC the art of concrete - Sealer 20%
Product Description: Penetrating, Waterproofing Silane Sealer
Intended Use: Acrylic cementitious Sealer

Company

Manufacturer: Rexall Solutions Corp.
27 Keefer Road
St. Catharines, ON L2M 6K4

Contact: +1 (844) 500-2436
CANUTEC's 24-hour number (1-888-CAN-UTEC(226-8832) or 613-996-6666)

SECTION 2 Hazards Identification

Classification of substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Highly Flammable Liquid and Vapor (Category 2), H225
Aspiration Hazard (Category 1) H304
Acute toxicity, dermal (Category 4) H312
Acute toxicity, inhalation (Category 4) H332
Skin corrosion/irritation (Category 2) H316
Serious eye damage/eye irritation (Category 2B) H319
Carcinogenicity (Category 2) H351
Specific target organ toxicity, single exposure (Category 3 respiratory tract irritation) H373
Specific target organ toxicity, single exposure (Category 3 narcotic effects)
Hazardous to the aquatic environment, acute hazard (Category 2) H401
Chronic aquatic toxicity (Category 2) H411

GHS Label Elements

Hazard symbol:

Signal word: Danger

Hazard Statements

H225: Highly Flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H312 + H332: Harmful in contact with skin or inhaled.
H315: Causes skin irritation.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposures.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

General

P102: Keep out of reach of children.
P103: Read carefully and follow all instructions

Prevention

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces. -- No smoking.
P233: Keep container tightly closed.
P240: Ground / bond container and receiving equipment.
P241: Use explosion-proof electrical, ventilating, and lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapors/ spray.
P261: Avoid breathing mist / vapors.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313: IF exposed or concerned: Get medical advice/ attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P331: Do NOT induce vomiting.
P332 + P313: If skin irritation occurs: Get medical advice/ attention.
P370 + P378: In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish.
P391: Collect spillage.

Storage

P403 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal

P501: Dispose of contents and container in accordance with local regulations.

SECTION 3 Composition / Information on Ingredients

This material is regulated as a mixture

Ingredient	**CAS #**	**EC#**	**% (by weight)**
Hazardous			
Xylene	1330-20-7	215-535-7	<11
Ethylbenzene	100-41-4	NE	<3
Solvent Naphtha (petroleum), light aromatic	64742-95-6	265-192-2	<14
Cumene	98-82-8	NE	<2
Psuedocumene(1,2,4-Trimethylbenzene)	95-63-6	NE	<3
Dimethyl Carbonate	616-38-6	210-478-4	<60
Naphtha (petroleum), heavy alkylate	64741-65-7	NE	<5
Non Hazardous			
	Trade secret		<26

SECTION 4 First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for 10 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If irritation occurs, get medical assistance.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.

Ingestion: Seek immediate medical attention. Wash out mouth with water. Remove dentures if any. 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. Aspiration hazard if swallowed. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not

get into the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Skin Contact: Wash contact areas with plenty of soap and water. Remove contaminated clothing and shoes. Launder contaminated clothing before reuse. Get medical attention.

Note to Physician If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION 5 Fire Fighting Measures
Appropriate Extinguishing Media: Foam, CO_2, Dry chemical, water spray or fog.

Inappropriate Extinguishing Media: Do not use water jet.

Specific hazards arising from the chemical: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Special protective actions for fire-fighters: Evacuate area. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. Move containers from fire area if this can be done without risk.

Hazardous Combustion Products: Incomplete combustion products, Smoke, Fume, Oxides of carbon.

SECTION 6 Accidental Release Measures
Personal Precautions, Protective Equipment, Emergency Procedures:
Keep unnecessary personnel away. 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. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Extinguish all flames in the vicinity. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Local authorities should be advised if significant spills cannot be contained. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Methods and Materials for Containment and Clean-up:
Large Spills: Stop the flow of material, if this is without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material such as sand, earth,

vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Small Spills: Stop the flow of material, if this is without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Disposal according to local regulations.

SECTION 7 Handling and Storage

Protective measures: Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage: Keep out of the reach of children. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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. The pressure in sealed containers can increase under the influence of heat. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 Exposure Control / Personal Protection

Engineering Measures: Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).

Exposure limit values:

Component	**Value / Source**			
Cumene	TWA	245 mg/m³	50 ppm	OSHA Z1
Cumene	TWA	No data available	50 ppm	ACGIH
Pseudocumene (1,2,4-Trimethylbenzene)	TWA	No data available	25 ppm	ACGIH
Tert-Butyl Acetate	TWA	No data available	200 ppm	ACHIH
Tert-Butyl Acetate	PEL	950 mg/m³	200 ppm	ACHIH
Solvent Naphtha (Petroleum), Light Aromatic	TWA	100 mg/m³	19 ppm	ExxonMobil

Xylene	PEL	435 mg/m³	100 ppm	OSHA Z1
Xylene	TWA	435 mg/m³	100 ppm	ACGIH
Xylene	STEL	No data available	150 ppm	ACGIH
Ethylbenzene	PEL	435 mg/m³	100 ppm	OSHA Z1
Ethylbenzene	TWA	No data available	20 ppm	ACGIH
Naphtha (petroleum), heavy alkylate	TWA	2,000 mg/m3	500 ppm	OSHA Z1

Occupational exposure controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures should provide adequate ventilation so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

Individual protection measures

Hygienic measures: Wash hands and exposed skin thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Contaminated clothing should be removed promptly. Wash contaminated clothing before reusing.

Eye/face protection: Safety glasses with side shields or full face shield should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or gases.

Skin protection

Hand protection: Chemical-resistant, nitrile gloves standard should be worn at all times.

Other protection: Appropriate footwear and any additional skin protection measures such as long-sleeved clothing to minimize skin contact.

Respiratory protection: Wear suitable NIOSH approved respirator when ventilation is not adequate.

SECTION 9 Physical and Chemical Properties

Appearance: Colorless liquid.
Physical state: Liquid.
Form: Liquid.
Color: Colorless.
Odor: Aromatic. Solvent-like.
Odor threshold: Not available.
pH: Not available.
Melting point/freezing point: -15°F (-26.1°C)

Initial boiling point and boiling range: 194°F (90 °C)
Flash point: 65°F (18°C)
Evaporation rate: Not available.
Flammability (solid, gas) Not available.
Flammability limit – lower: 1 %
Flammability limit – upper: 7 %
Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.
Vapor pressure: Not available.
Vapor density Relative density: Not available.
Solubility (water): Very slightly soluble.
Partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity Not available.
VOC: <400 g/L.

SECTION 10 Stability and Reactivity
Reactivity: Not available.
Chemical stability: The product is stable.
Possibility of hazardous reactions: Hazardous reactions will not occur under normal conditions.
Conditions to avoid: Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
Incompatible materials: Oxidizing materials.
Hazardous decomposition products: Hazardous decomposition products should not be produced under normal conditions.

SECTION 11 Toxicological Information

Component Information

Chemical Name	**Oral LD50**	**Dermal LD50**	**Inhalation LC50**
Petroleum naphtha, light aromatic 64742-95-6	8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L, 3400 ppm (Rat) 4 h
1,2,4-Trimethylbenzene 95-63-6	5000 mg/kg (Rat)	No data available	18 mg/L (Rat) 4 h
Xylene 1330-20-7	4300 mg/kg (Rat)	> 1700 mg/kg (Rabbit)	47.6 g/L, 5000 ppm (Rat) 4 h

Dimethyl Carbonate 616-38-6	5000 mg/kg (Rat)	> 2000 mg/kg	5.36 mg/L (Rat) 4 h
Cumene 98-82-8	1400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	39 mg/L (Rat) 4 h
Naphtha (petroleum), heavy alkylate 64741-65-7	5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	No data available

Potential acute health effects:

Inhalation: No known significant effects or critical hazards.
Eye Contact: Causes serious eye irritation, including itching, burning, redness, and tearing.
Ingestion: May be fatal if swallowed and enters airways.
Skin Contact: No specific data.

Potential chronic health effects:

General: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

SECTION 12 Ecological Information

Eco toxicity - Toxic to aquatic life with long-lasting effects.

Toxicity to Fish

Chemical Name	CAS No	Species	LC50 (mg/L)	Exposure (Method)
Petroleum naphtha, light aromatic	64742-95-6	Oncorhynchus mykiss	9.22	96 h
1,2,4-Trimethylbenzene	95-63-6	Pimephales promelas	7.72	96 h (flow-through)
Xylene	1330-20-7	Pimephales promelas Pimephales promelas Oncorhynchus mykiss Lepomis macrochirus	13.40 23.53–29.97 2.66–4.09 19.00	96 h (flow-through) 96 h (static) 96 h 96 h

		Lepomis macrochirus Lepomis macrochirus Poecilia reticulata	13.10–16.50 7.71–9.59 30.26–40.75	96 h (flow-through) 96 h (static) 96 h (static)
Cumene	98-82-8	Pimephales promelas Oncorhynchus mykiss Oncorhynchus mykiss Poecilia reticulata	6.04–6.61 4.80 2.70 5.10	96 h (flow-through) 96 h (flow-through) 96 h (semi-static) 96 h (semi-static)
Dimethyl Carbonate	616-38-6	Danio rerio	>=100 mg/L	96 h (flow-through)

Toxicity to Algae/Aquatic Plants, Microorganisms and Crustacea

Chemical Name	**CAS No**	**Algae/aquatic plants EC50**	**Microorganisms EC50**	**Crustacea EC50**
Petroleum naphtha, light aromatic	64742-95-6	Pseudokirchneriella subcapitata 3.1 mg/L 72 h	No data available	Daphnia magna 6.14 mg/L 48 h
1,2,4-Trimethylbenzene	95-63-6		No data available	Daphnia magna 3.60 mg/L 48 h
Xylene	1330-20-7	Pseudokirchneriella subcapitata 72 mg/L 14 d	0.0084 mg/L 24 h	Daphnia magna 3.82 mg/L 48 h Gammarus lacustris 0.6 mg/L 48 h
Cumene	98-82-8	Pseudokirchneriella subcapitata 2.6 mg/L 72 h	0.89 mg/L 5 min 1.10 mg/L 15 min 1.48 mg/L 30 min 172 mg/L 24 h	Daphnia magna 7.9–14.1 mg/L 48 h
Dimethyl Carbonate	616-38-6	Pseudokirchneriella subcapitata >100 mg/L 72h (static)	>1000 mg/L 3h	Daphnia magna 7.9-14.1 mg/L 48h

Persistence and degradability No data available.

Bio accumulative potential No data available.

Mobility

Chemical Name	CAS No	Partition Coefficient (log POW)
Petroleum naphtha, light aromatic	64742-95-6	3.42
1,2,4-Trimethylbenzene	95-63-6	3.63
Xylene	1330-20-7	2.77-3.15
Cumene	98-82-8	3.55

Other adverse effects: No known significant effects or critical hazards.

SECTION 13 Disposal Considerations

Disposal methods: This material and its container must be disposed of as hazardous waste. Dispose in accordance with all local regulations and requirements. Do not allow this material to spill and runoff and contact with soil, waterways, drains and sewers.

Section 14 Transport Information

DOT

UN number: UN1263
UN proper shipping name: Paint related material
Class: 3
Packing group: II
Special precautions for user: Not available.

IATA

UN number: UN1263
UN proper shipping name: Paint related material
Class: 3
Packing group: II
Environmental hazards: No.
Special precautions for user: Not available.

IMDG

UN number: UN1263
UN proper shipping name: Paint related material
Class: 3
Packing group: II
Environmental hazards
Marine pollutant: No.
Special precautions for user: Not available.

SECTION 15 Regulatory Information

US federal regulations: This product is hazardous according to OSHA 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Benzene [as part of xylene] (CAS 71-43-2)
Cumene (CAS 98-82-8)
Cancer, Central nervous system, Blood, Aspiration, Skin, Eye, Respiratory tract irritation, Flammability

CERCLA Hazardous Substance List (40 CFR 302.4):

Xylene (CAS 1330-20-7) listed
Ethylbenzene (CAS 100-41-4) listed
Cumene (CAS 98-82-8) listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance: Not listed.

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting):

Xylene CAS 1330-20-7
Ethylbenzene (CAS 100-41-4)
Cumene (CAS 98-82-8)
Pseudocumene (1,2,4-Trimethylbenzene) (CAS 95-63-6)

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:

Xylene (CAS 1330-20-7)
Ethylbenzene (CAS 100-41-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR68.130): Hazardous substance, Priority and Toxic pollutant

Safe Drinking Water Act (SDWA): 0 mg/l 0.005 mg/l

US state regulations

US. Massachusetts RTK - Substance List:

Xylene (CAS 1330-20-7)
Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)

US. New Jersey Worker and Community Right-to-Know Act:

Xylene (CAS 1330-20-7)
Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)
Toluene (CAS 108-88-3)
Cumene (CAS 98-82-8)
Pseudocumene (1,2,4-Trimethylbenzene) (CAS 95-63-6)
Naphtha (petroleum), heavy alkylate (CAS 64741-65-7)

US. Pennsylvania Worker and Community Right-to-Know Law:

Xylene (CAS 1330-20-7)
Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)
Toluene (CAS 108-88-3)
Cumene (CAS 98-82-8)
Pseudocumene (1,2,4-Trimethylbenzene) (CAS 95-63-6)
Naphtha (petroleum), heavy alkylate (CAS 64741-65-7)

US. Rhode Island RTK:

Xylene (CAS 1330-20-7)
Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)
Toluene (CAS 108-88-3)
Cumene (CAS 98-82-8)
Pseudocumene (1,2,4-Trimethylbenzene) (CAS 95-63-6)

US. California Proposition 65: Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2)
Ethylbenzene (CAS 100-41-4)
Toluene (CAS 108-88-3)

SECTION 16 Other Information

This version replaces all previous versions. The information contained in this SDS and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Although certain hazards are described herein, Rexall Solutions Corp., cannot guarantee that these are the only hazards that exist. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Rexall Solutions Corp., assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. The Sierra Company, LLC, expressly disclaims any representations and warranties of any kind, whether express or implied, as to the accuracy, completeness, Non-infringement, merchantability and/or fitness for a particular purpose with respect to any information and recommendations provided. Rexall Solutions Corp. reserves the right to make any changes to the information and/or recommendations at any time, without prior subsequent notice.