



SAFETY DATA SHEET

AUTO-SEAL 2K BLACK URETHANE SEALER

SECTION 1: Identification

Product Identifier

Product Name: Auto-Seal 2K Black Urethane Sealer
Product code: 4821, 4824

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Sealer
Uses Advised Against: No other uses are advised.
Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer: United States

Autokote Systems, LLC
121 Business Circle
Thomasville, GA 31792

800-801-5913

Mailing Address:
P. O. Box 3246
Thomasville, GA 31799

Emergency Telephone Number:

CHEMTREC 800-424-9300 (24 hours) (Inside the US)
CHEMTREC International 73-527-3887 (Outside the US, collect calls accepted)

SECTION 2: Hazard(s) Identification

GHS Classification:

Flammable liquids, category 3
Skin irritation, category 2
Eye irritation, category 2A
Skin sensitization, category 1
Carcinogenicity, category 1A
Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Label elements

Hazard Pictograms:



Signal Word: Danger

Hazard statements:

H226 Flammable liquid and vapor
H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause an allergic skin reaction

AUTO-SEAL 2K BLACK URETHANE SEALER

H350 May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H335 May cause respiratory irritation

Precautionary Statements:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P261 Avoid breathing dust, fumes, gas, mist, vapors or spray.

P272 Contaminated work clothing must not be allowed out of the workplace

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P271 Use only outdoors or in a well-ventilated area

P210 Keep away from open flames and 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

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).

P332+P313 If skin irritation occurs: Get medical attention.

P362 Take off contaminated clothing and wash it before reuse

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 attention.

P333+P313 If skin irritation or rash occurs: Get medical attention.

P363 Wash contaminated clothing before reuse

P308+P313 If exposed or concerned: Get medical attention.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 Call a POISON CENTER/doctor/.../if you feel unwell

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with shower.

P370+P378 In case of fire: Use agents recommended in Section 5 to extinguish.

P405 Store locked up

P403+P233 Store in a well-ventilated place. Keep container tightly closed

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

P501 Dispose of contents and container in accordance with federal, state and local regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 100-41-4	Ethylbenzene	<1
CAS Number: 108-65-6	1-Methoxy-2-propanol acetate	<1
CAS Number: 110-43-0	Heptan-2-one	1-5

AUTO-SEAL 2K BLACK URETHANE SEALER

CAS Number: 1330-20-7	Xylene	5-15
CAS Number: 1318-59-8	Chlorite-group minerals	<1
CAS Number: 1333-86-4	Bounded Carbon Black	<1
CAS Number: 14567-73-8	Tremolite (non-asbestiform)	1-5
CAS Number: 14807-96-6	Talc (non-asbestiform)	5-15
CAS Number: 14808-60-7	Silica, crystalline quartz (respirable)	<1
CAS Number: 42767-92-0	2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-propenoate	5-15
CAS Number: 64742-95-6	Solvent naphtha (petroleum), light arom.	<1
CAS Number: 67-64-1	Acetone	5-15
CAS Number: 71011-24-0	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	1-5
CAS Number: 7664-38-2	Orthophosphoric Acid	<1
CAS Number: 77-58-7	Dibutyltin dilaurate	<1
CAS Number: 7727-43-7	Barium Sulfate	15-30
CAS Number: 98-56-6	4-Chloro- α,α,α -trifluorotoluene	15-30
CAS Number: 9004-36-8	Cellulose, acetate butanoate	1-5

Additional Information: None

SECTION 4: First Aid Measures**Description of First Aid Measures****General Notes:**

Show this Safety Data Sheet to the doctor in attendance.

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

AUTO-SEAL 2K BLACK URETHANE SEALER

After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After Eye Contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

Product is flammable. Exposure to sources of ignition may cause physical injury.

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

Exposure may cause cancer. Effects are dependent on exposure (dose, concentration, contact time).

Immediate Medical Attention and Special Treatment

Specific Treatment:

If respiratory symptoms persist, seek medical attention.

Skin/eye burns require immediate treatment.

Notes for the Doctor:

Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may

AUTO-SEAL 2K BLACK URETHANE SEALER

explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

AUTO-SEAL 2K BLACK URETHANE SEALER

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
OSHA	Ethylbenzene	100-41-4	8-Hour TWA-PEL: 435 mg/m ³ (100 ppm)
	Ethylbenzene	100-41-4	STEL: 545 mg/m ³ (125 ppm)
	Heptan-2-one	110-43-0	8-Hour TWA-PEL: 465 mg/m ³ (100 ppm)
	Xylene	1330-20-7	8-Hour TWA-PEL: 435 mg/m ³ (100 ppm)
	Bounded Carbon Black	1333-86-4	8-Hour TWA-PEL: 3.5 mg/m ³
	Tremolite (non-asbestiform)	14567-73-8	8-Hour TWA-PEL: 0.1 fibers/cm ³ (as asbestos)
	Tremolite (non-asbestiform)	14567-73-8	PEL-STEL: 1 fibers/cm ³ (30 min - as asbestos)
	Talc (non-asbestiform)	14807-96-6	8-Hour TWA-PEL: 2 mg/m ³ (containing no asbestos, respirable dust)
	Talc (non-asbestiform)	14807-96-6	8-Hour TWA-PEL: 0.1 mg/m ³ (not containing asbestos, 1% or more crystalline silica, respirable)
	Silica, crystalline quartz (respirable)	14808-60-7	8-Hour TWA-PEL: 0.05 mg/m ³ (respirable)
	Silica, crystalline quartz (respirable)	14808-60-7	8-Hour TWA-PEL: 0.025 mg/m ³ (Action level - respirable)
	Acetone	67-64-1	8-Hour TWA-PEL: 2400 mg/m ³ (1000 ppm)

AUTO-SEAL 2K BLACK URETHANE SEALER

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA-PEL: 0.05 mg/m ³ (for respirable crystalline silica)
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA-PEL: 0.025 mg/m ³ ([action level] for respirable crystalline silica)
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA-PEL: 15 mg/m ³ (inert or nuisance dust, total)
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA: 5 mg/m ³ (inert or nuisance dust, respirable)
	Orthophosphoric Acid	7664-38-2	8-Hour TWA-PEL: 1 mg/m ³
	Dibutyltin dilaurate	77-58-7	8-Hour TWA-PEL: 0.1 mg/m ³ (Tin, Organic Compounds as Sn)
	Barium Sulfate	7727-43-7	8-Hour TWA-PEL: 15 mg/m ³ (Total dust)
	Barium Sulfate	7727-43-7	8-Hour TWA-PEL: 5 mg/m ³ (Respirable fraction)
	Barium Sulfate	7727-43-7	8-Hour TWA-PEL: 15 mg/m ³ (PARTICULATES NOT OTHERWISE REGULATED TOTAL DUST)
	Barium Sulfate	7727-43-7	8-Hour TWA-PEL: 5 mg/m ³ (PARTICULATES NOT OTHERWISE REGULATED RESPIRABLE FRACTION)
	Barium Sulfate	7727-43-7	8-Hour TWA: 5 mg/m ³ (Inert or Nuisance Dust, Respirable fraction)
	Barium Sulfate	7727-43-7	8-Hour TWA: 15 mg/m ³ (Inert or Nuisance Dust, Total dust)
NIOSH	Ethylbenzene	100-41-4	REL-TWA: 435 mg/m ³ (100 ppm [10-hr])
	Ethylbenzene	100-41-4	15-Minute STEL: 545 mg/m ³ (125 ppm)
	Ethylbenzene	100-41-4	IDLH: 800 ppm
	Heptan-2-one	110-43-0	REL-TWA: 465 mg/m ³ (100 ppm [up to 10 hr])
	Heptan-2-one	110-43-0	IDLH: 800 ppm
	Xylene	1330-20-7	REL-TWA: 435 mg/m ³ (100 ppm [up to 10 hr])
	Xylene	1330-20-7	STEL: 655 mg/m ³ (150 ppm)
	Xylene	1330-20-7	IDLH: 900 ppm
	Bounded Carbon Black	1333-86-4	IDLH: 1750 mg/m ³
	Bounded Carbon Black	1333-86-4	REL-TWA: 0.1 mg/m ³ (in the presence of polycyclic aromatic hydrocarbons [up to 10 hr])
	Bounded Carbon Black	1333-86-4	REL-TWA: 3.5 mg/m ³ (up to 10 hr)
	Tremolite (non-asbestiform)	14567-73-8	8-Hour TWA: 0.1 fibers/cm ³ (Asbestos, all forms)

AUTO-SEAL 2K BLACK URETHANE SEALER

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Tremolite (non-asbestiform)	14567-73-8	Ceiling Limit: 1 fibers/cm ³ ([30 min] for Asbestos, fibers > 5 micrometers in length)
	Talc (non-asbestiform)	14807-96-6	REL-TWA: 2 mg/m ³ ([up to 10 hr] containing no asbestos and less than 1% quartz, respirable)
	Talc (non-asbestiform)	14807-96-6	IDLH: 1000 mg/m ³ (containing no asbestos and <1% quartz, respirable)
	Silica, crystalline quartz (respirable)	14808-60-7	REL-TWA: 0.05 mg/m ³ (respirable - up to 10 hr)
	Silica, crystalline quartz (respirable)	14808-60-7	IDLH: 50 mg/m ³ (respirable)
	Acetone	67-64-1	REL-TWA: 590 mg/m ³ (250 ppm [up to 10-hr])
	Acetone	67-64-1	IDLH: 2500 ppm
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	REL-TWA: 0.05 mg/m ³ ([up to 10 hr] for respirable crystalline silica)
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	IDLH: 50 mg/m ³ (for respirable crystalline silica)
	Orthophosphoric Acid	7664-38-2	REL-TWA: 1 mg/m ³ (up to 10 hr)
	Orthophosphoric Acid	7664-38-2	15-Minute STEL: 3 mg/m ³
	Orthophosphoric Acid	7664-38-2	IDLH: 1000 mg/m ³
	Dibutyltin dilaurate	77-58-7	REL-TWA: 0.1 mg/m ³ (Tin, Organic Compounds, except cyhexatin, as Sn - up to 10 hr)
	Dibutyltin dilaurate	77-58-7	IDLH: 25 mg/m ³ (Tin, Organic Compounds as Sn)
	Barium Sulfate	7727-43-7	REL-TWA: 5 mg/m ³ (Respirable fraction [up to 10 hr])
	Barium Sulfate	7727-43-7	REL-TWA: 10 mg/m ³ (Total dust [up to 10 hr])
United States(California)	Ethylbenzene	100-41-4	8-Hour TWA-PEL: 22 mg/m ³ (5 ppm)
	Ethylbenzene	100-41-4	15-Minute STEL: 130 mg/m ³ (30 ppm)
	Ethylbenzene	100-41-4	REL: 2000 ug/m ³ (chronic inhalation)
	Heptan-2-one	110-43-0	8-Hour TWA-PEL: 235 mg/m ³ (50 ppm)
	Xylene	1330-20-7	8-Hour TWA-PEL: 435 mg/m ³ (100 ppm)
	Xylene	1330-20-7	15-Minute STEL: 635 mg/m ³ (150 ppm)
	Xylene	1330-20-7	PEL Ceiling: 300 ppm
	Xylene	1330-20-7	REL: 22000 ug/m ³ (acute inhalation)
	Xylene	1330-20-7	REL: 700 ug/m ³ (chronic inhalation)
	Bounded Carbon Black	1333-86-4	8-Hour TWA-PEL: 3.5 mg/m ³

AUTO-SEAL 2K BLACK URETHANE SEALER

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Tremolite (non-asbestiform)	14567-73-8	8-Hour TWA-PEL: 0.1 fibers/cc (Asbestos)
	Tremolite (non-asbestiform)	14567-73-8	PEL-STEL: 1 fibers/cm ³ ([30 min] - Asbestos)
	Talc (non-asbestiform)	14807-96-6	8-Hour TWA-PEL: 2 mg/m ³ (containing no asbestos fibers, <1% crystalline silica, respirable dust)
	Silica, crystalline quartz (respirable)	14808-60-7	8-Hour TWA-PEL: 0.05 mg/m ³ (respirable dust)
	Silica, crystalline quartz (respirable)	14808-60-7	REL: 3 ug/m ³ (chronic inhalation [respirable])
	Acetone	67-64-1	8-Hour TWA-PEL: 1200 mg/m ³ (500 ppm)
	Acetone	67-64-1	Ceiling Limit: 3000 ppm
	Acetone	67-64-1	15-Minute STEL: 1780 mg/m ³ (750 ppm)
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA-PEL: 0.05 mg/m ³ (for respirable crystalline silica)
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA-PEL: 10 mg/m ³ (inert or nuisance dust, total)
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA: 5 mg/m ³ (inert or nuisance dust, respirable)
	Orthophosphoric Acid	7664-38-2	8-Hour TWA-PEL: 1 mg/m ³
	Orthophosphoric Acid	7664-38-2	15-Minute STEL: 3 mg/m ³
	Dibutyltin dilaurate	77-58-7	8-Hour TWA-PEL: 0.1 mg/m ³ (Tin, Organic Compounds as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute STEL: 0.2 ng/m ³ (Tin, Organic Compounds as Sn)
	Barium Sulfate	7727-43-7	8-Hour TWA-PEL: 10 mg/m ³ (Particulates not otherwise regulated, total dust)
	Barium Sulfate	7727-43-7	8-Hour TWA-PEL: 5 mg/m ³ (Particulates not otherwise regulated, respirable fraction)
ACGIH	Ethylbenzene	100-41-4	8-Hour TWA: 20 ppm
	Heptan-2-one	110-43-0	8-Hour TWA: 50 ppm
	Xylene	1330-20-7	8-Hour TWA: 100 ppm
	Xylene	1330-20-7	15-Minute STEL: 150 ppm
	Bounded Carbon Black	1333-86-4	8-Hour TWA: 3 mg/m ³ (inhalable particulate matter)
	Tremolite (non-asbestiform)	14567-73-8	8-Hour TWA: 0.1 fibers/cm ³ (Asbestos, all forms)
	Talc (non-asbestiform)	14807-96-6	8-Hour TWA: 2 mg/m ³ (containing no asbestos fibers, respirable)
	Silica, crystalline quartz (respirable)	14808-60-7	8-Hour TWA: 0.025 mg/m ³ (respirable fraction)
	Acetone	67-64-1	8-Hour TWA: 250 ppm

AUTO-SEAL 2K BLACK URETHANE SEALER

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Acetone	67-64-1	15-Minute STEL: 500 ppm
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA: 0.025 mg/m ³ (for crystalline silica, respirable particulate matter)
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA: 10 mg/m ³ (for insoluble particles of low toxicity, inhalable)
	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	71011-24-0	8-Hour TWA: 3 mg/m ³ (for insoluble particles of low toxicity, respirable)
	Orthophosphoric Acid	7664-38-2	8-Hour TWA: 1 mg/m ³
	Orthophosphoric Acid	7664-38-2	15-Minute STEL: 3 mg/m ³
	Dibutyltin dilaurate	77-58-7	8-Hour TWA: 0.1 mg/m ³ (Tin, Organic Compounds as Sn)
	Dibutyltin dilaurate	77-58-7	15-Minute STEL: 0.2 mg/m ³ (Tin, Organic Compounds as Sn)
	Barium Sulfate	7727-43-7	8-Hour TWA: 5 mg/m ³ (Inhalable fraction)
	Barium Sulfate	7727-43-7	8-Hour TWA: 10 mg/m ³ (Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles)
	Barium Sulfate	7727-43-7	8-Hour TWA: 3 mg/m ³ (Particles (insoluble or poorly soluble) not otherwise specified, respirable particles)

Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	End of shift.	0.15 g/g
	Xylene	1330-20-7	Methylhippuric acids	Creatinine in urine	End of shift.	1.5 g/g
	Acetone	67-64-1	Acetone	Urine	End of shift	25 mg/L

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

AUTO-SEAL 2K BLACK URETHANE SEALER

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Liquid
Odor	Solvent
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	205 c
Flash point (closed cup)	5337 c
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Regulatory VOC 2.25 lb/gal (270 g/l)

Actual VOC 1.18 lb/gal (141 g/l)

AUTO-SEAL 2K BLACK URETHANE SEALER

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

Incompatible Materials:

None known.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Route	Result
Ethylbenzene	inhalation	LC50 Rat: 17.8 mg/L (4 hr [vapor])
	oral	LD50 Rat: 3500 mg/kg
	dermal	LD50 Rabbit: 15,400 mg/kg
1-Methoxy-2-propanol acetate	oral	LD50 Rat: 5155 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
Heptan-2-one	inhalation	LC50 Rat: 16.7 mg/L (4 hr [Vapor])
	oral	LD50 Rat: 1600 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
Xylene	dermal	LD50 Rabbit: 1700 mg/kg
	inhalation	LC50 Rat: 27.1 mg/L (4 hr [vapor])
	oral	LD50 Rat: 3523 mg/kg
Bounded Carbon Black	oral	LD50 Rat: > 2000 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
	inhalation	LC50 Rat: >= 4.6 mg/L (4 hr [dust])
Talc (non-asbestiform)	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg
	inhalation	LC50 Rat: > 2.1 mg/L (4hr [aerosol])
Solvent naphtha (petroleum), light arom.	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: >4.96 mg/L (4 hr [vapor])

AUTO-SEAL 2K BLACK URETHANE SEALER

Name	Route	Result
Acetone	oral	LD50 Rat: 5800 mg/kg
	inhalation	LC50 Rat: 76 mg/L (4 hr [Vapor])
	dermal	LD50 Rabbit: > 7426 mg/kg
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
	inhalation	LC50 Rat: >5 mg/L (4 hr - Dust)
Orthophosphoric Acid	inhalation	LC50 Rat: 1.689 mg/L (1 hr)
	oral	LD50 Rat: 1530 mg/kg
	dermal	LD50 Rabbit: 2740 mg/kg
Dibutyltin dilaurate	oral	LD50 Rat: 175 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
Barium Sulfate	oral	LD50 Rat: > 5000 mg/kg
4-Chloro- α,α,α -trifluorotoluene	oral	LD50 Rat: 5546 mg/kg
	inhalation	LC50 Rat: > 32.03 mg/L (4 hr [Aerosol])
	dermal	LD50 Rabbit: >3300 mg/kg

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Xylene	Causes skin irritation.
2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-propenoate	Causes skin irritation.
Orthophosphoric Acid	Causes severe skin burns.
Dibutyltin dilaurate	Causes skin irritation.
4-Chloro- α,α,α -trifluorotoluene	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye irritation.

Product Data:

No data available.

Substance Data:

Name	Result
2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-propenoate	Causes serious eye irritation.

AUTO-SEAL 2K BLACK URETHANE SEALER

Name	Result
Acetone	Causes serious eye irritation.
Orthophosphoric Acid	Causes serious eye damage.
Dibutyltin dilaurate	Causes serious eye irritation.
4-Chloro- α,α,α -trifluorotoluene	Causes serious eye irritation.

Respiratory or Skin Sensitization**Assessment:**

May cause an allergic skin reaction.

Product Data:

No data available.

Substance Data:

Name	Result
2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-propenoate	May cause an allergic skin reaction.
Dibutyltin dilaurate	May cause an allergic skin reaction.
4-Chloro- α,α,α -trifluorotoluene	May cause an allergic skin reaction.

Carcinogenicity**Assessment:**

May cause cancer.

Product Data: No data available.

Substance Data:

Name	Species	Result
Bounded Carbon Black	Not applicable.	The carcinogenic classification only applies to airborne, unbound particles of respirable size.
Tremolite (non-asbestiform)		Exposure to non-asbestiform tremolite may increase the risk for pulmonary fibrosis and lung cancer.
Talc (non-asbestiform)		Talc containing asbestos is carcinogenic to humans.
Silica, crystalline quartz (respirable)		May cause cancer via inhalation.
Solvent naphtha (petroleum), light arom.	Not applicable.	May cause cancer. Animals exposed to high levels of some petroleum products have developed liver and kidney tumors. Occupationally exposed people in the petroleum refining industry have an increased risk of skin cancer and leukemia.

International Agency for Research on Cancer (IARC):

Name	Classification
Ethylbenzene	Group 2B
1-Methoxy-2-propanol acetate	Not Applicable
Heptan-2-one	Not Applicable
Xylene	Group 3
Bounded Carbon Black	Group 2B
Tremolite (non-asbestiform)	Group 1

AUTO-SEAL 2K BLACK URETHANE SEALER

Name	Classification
Talc (non-asbestiform)	Group 3
Silica, crystalline quartz (respirable)	Group 1
2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-propenoate	Not Applicable
Solvent naphtha (petroleum), light arom.	Group 3
Acetone	Not Applicable
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	Not Applicable
Orthophosphoric Acid	Not Applicable
Dibutyltin dilaurate	Not Applicable
Barium Sulfate	Not Applicable
4-Chloro- α,α,α -trifluorotoluene	Group 2B
Cellulose, acetate butanoate	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Ethylbenzene	Not Applicable
1-Methoxy-2-propanol acetate	Not Applicable
Heptan-2-one	Not Applicable
Xylene	Not Applicable
Bounded Carbon Black	Known to be human carcinogens
Tremolite (non-asbestiform)	Known to be human carcinogens
Silica, crystalline quartz (respirable)	Known to be human carcinogens
2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-propenoate	Not Applicable
Solvent naphtha (petroleum), light arom.	Not Applicable
Acetone	Not Applicable
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	Not Applicable
Orthophosphoric Acid	Not Applicable
Dibutyltin dilaurate	Not Applicable

AUTO-SEAL 2K BLACK URETHANE SEALER

Name	Classification
Barium Sulfate	Not Applicable
4-Chloro- α,α,α -trifluorotoluene	Not Applicable
Cellulose, acetate butanoate	Not Applicable

OSHA Carcinogens:

Ingredient Name	CAS	OSHA Carcinogens Status
Tremolite (non-asbestiform)	14567-73-8	Yes
Silica, crystalline quartz (respirable)	14808-60-7	Yes

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

Name	Result
Solvent naphtha (petroleum), light arom.	May cause genetic defects.
Dibutyltin dilaurate	Suspected of causing genetic defects

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

Name	Result
Dibutyltin dilaurate	May damage fertility; May damage the unborn child

Specific Target Organ Toxicity (Single Exposure)**Assessment:**

May cause respiratory irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Heptan-2-one	May cause drowsiness or dizziness.
2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-propenoate	May cause respiratory irritation.
Acetone	May cause drowsiness or dizziness.
Dibutyltin dilaurate	Causes damage to the thymus through single exposure.
4-Chloro- α,α,α -trifluorotoluene	May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

AUTO-SEAL 2K BLACK URETHANE SEALER

No data available.

Substance Data:

Name	Result
Ethylbenzene	May cause damage to organs (hearing; central nervous system) through prolonged or repeated exposure.
Tremolite (non-asbestiform)	Repeated or prolonged exposure to asbestiform Tremolite may cause lung damage. Even cleavage fragments (non-asbestiform tremolite) are shown to cause lung damage after repeated or prolonged exposure.
Silica, crystalline quartz (respirable)	Causes damage to organs (lungs; kidneys; immune system) through prolonged or repeated exposure via inhalation.
Orthophosphoric Acid	Repeated and/or prolonged exposure may have effects on the upper respiratory tract and lungs. This may result in chronic inflammation and reduced lung function.
Dibutyltin dilaurate	Causes damage to the immune system through prolonged or repeated exposure.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

Name	Result
Ethylbenzene	May be fatal if swallowed and enters airways.
Solvent naphtha (petroleum), light arom.	May be fatal if swallowed and enters airways.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Other Information:

No data available.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Ethylbenzene	Fish LC50 <i>Menidia menidia</i> : 5.1 mg/L (96 hr)
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 1.8 - 2.4 mg/L (48 hr [adult length, weight, reproduction, age at first brood release, neonate length and weight])
	Aquatic Plants EC50 <i>Raphidocelis subcapitata</i> : 3.6 mg/L (72 hr [cell number])
1-Methoxy-2-propanol acetate	Fish LC50 <i>Oncorhynchus mykiss</i> : 100-180 mg/L (96 hr)
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : >500 mg/L (48 hr [mobility])
	Aquatic Plants EC50 <i>Raphidocelis subcapitata</i> : >1000 mg/L (96 hr [growth rate])

AUTO-SEAL 2K BLACK URETHANE SEALER

Name	Result
Heptan-2-one	Fish LC50 Pimephales promelas: 131 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 90.1 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: 75.5 mg/L (72 hr [biomass])
Xylene	Fish LC50 Freshwater fish: 2.6 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 Daphnia magna: 1.8 mg/L (48 hr [read-across])
	Aquatic Plants EC50 Freshwater algae: 3.2 mg/L (72 hr [read-across])
Bounded Carbon Black	Fish LC50 Danio rerio: > 1000 mg/L (96 hr)
	Aquatic Plants EC50 Desmodesmus subspicatus: > 10,000 mg/L (72 hr [growth rate])
	Aquatic Invertebrates EC50 Daphnia magna: 164 mg/L (48 hr [QSAR])
Talc (non-asbestiform)	Fish LC50 Freshwater fish: 89581 mg/L (96 hr [QSAR])
	Aquatic Plants EC50 Green algae: 7203 mg/L (96 hr [QSAR])
	Aquatic Invertebrates EC50 Daphnid species: 36812 mg/L (48 hr [QSAR])
Solvent naphtha (petroleum), light arom.	Fish LC50 Pimephales promelas: 8.2 mg/L (96 hr [LL50])
	Aquatic Invertebrates EC50 Daphnia magna: 4.5 mg/L (48 hr [EL50])
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 3.1 mg/L (72 hr [EL50])
Acetone	Fish LC50 Oncorhynchus mykiss: 5540 mg/L (96 hr)
	Aquatic Invertebrates LC50 Daphnia pulex: 8800 mg/L (48 hr [mortality])
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	Fish LC50 Oncorhynchus mykiss: >500 mg/L (96 hr [for organoclays])
	Aquatic Invertebrates EC50 Daphnia magna: 230 mg/L (96 hr [for organoclays])
Orthophosphoric Acid	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [immobilization])
	Aquatic Plants EC50 Desmodesmus subspicatus: > 100 mg/L (72 hr [growth rate])
Dibutyltin dilaurate	Aquatic Plants EC50 Green Algae: >1 mg/L (72 hr [growth rate])
	Aquatic Invertebrates EC50 Daphnia magna: 1.7 mg/L (48 hr [growth rate])
Barium Sulfate	Fish LC50 Danio rerio: >174 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: >58.8 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: >1.15 mg/L (72 hr [growth rate])
4-Chloro- α,α,α -trifluorotoluene	Aquatic Plants EC50 Green Algae: \geq 0.41 mg/L (72 hr [biomass])
	Aquatic Invertebrates LC50 Daphnia magna: 2 mg/L (48 hr [mobility])
	Fish LC50 Zebra Fish: 3 mg/L (96 hr)

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
1-Methoxy-2-propanol acetate	Fish NOEC Oryzias latipes: 47.5 mg/L (14 d [behaviour])
	Aquatic Invertebrates NOEC Daphnia magna: \geq 100 mg/L (21 d [reproduction])

AUTO-SEAL 2K BLACK URETHANE SEALER

Name	Result
Xylene	Fish NOEC Oncorhynchus mykiss: >1.3 mg/L (56 d [read-across])
	Aquatic Invertebrates NOEC Ceriodaphnia dubia: 0.96 mg/L (7 d [read-across])
Bounded Carbon Black	Aquatic Invertebrates EC50 Daphnia magna: 4.9 mg/L (16 d [immobilization; QSAR])
Talc (non-asbestiform)	Fish NOEC Freshwater fish: 5980 mg/L (30 d [QSAR])
	Aquatic Invertebrates NOEC Daphnid species: 1460 mg/L (30 d [QSAR])
	Aquatic Plants NOEC Green algae: 918 mg/L (30 d [QSAR])
Solvent naphtha (petroleum), light arom.	Aquatic Invertebrates EC50 Daphnia magna: 10 mg/L (21 d [EL50, reproduction])
Acetone	Aquatic Invertebrates NOEC Daphnia magna: 2212 mg/L (28 d [reproduction])
Barium Sulfate	Fish NOEC Danio rerio: \geq 100 mg/L (33 d [hatching success, mortality (post-hatch success), numbers of healthy fish, length of the surviving fish, dry weight of the surviving fish])
	Aquatic Invertebrates NOEC Cancer anthonyi: 10 mg/L (7 d [embryonal hatching])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Ethylbenzene	The substance is readily biodegradable. 70 - 80% degradation in water, measured by inorganic Carbon analysis, after 28 days.
1-Methoxy-2-propanol acetate	This substance is readily biodegradable. 90% degradation in water, measured by CO ₂ evolution, after 28 days.
Heptan-2-one	Substance is Readily biodegradable. 69% degradation in water, measured by inorganic carbon analysis, after 28 days.
Xylene	Readily biodegradable in water (94% degradation after 28 days, measured by Oxygen consumption).
Bounded Carbon Black	Being essentially elemental carbon, bulk forms of carbon black cannot be used as a carbon source and will not be biodegraded by microorganisms.
Talc (non-asbestiform)	Persistence assessment based on biodegradability is not applicable for inorganic substances such as this one.
Solvent naphtha (petroleum), light arom.	This substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
Acetone	The substance is readily biodegradable. 90.9% degradation, measured by CO ₂ evolution, after 28 days.
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	Not readily biodegradable. Biodegradation range for organoclya category members ranges from 4.7% - 33.4 % after 28 days.
Orthophosphoric Acid	Degradation studies are not applicable to inorganic substances.
Dibutyltin dilaurate	Under test conditions, not readily biodegradable in water (23% degradation after 39 days).

AUTO-SEAL 2K BLACK URETHANE SEALER

Name	Result
Barium Sulfate	Persistence assessment based on biodegradability is not relevant for metals and their inorganic compounds such as this substance.
4-Chloro- α,α,α -trifluorotoluene	The substance is not readily biodegradable. 19.2% degradation in water, measured by O ₂ consumption after 28 days.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Ethylbenzene	The substance has the potential to bioaccumulate (log Pow = 3.6 at 20°C).
1-Methoxy-2-propanol acetate	This substance is not expected to bioaccumulate (Log Pow= 1.2 at 20 °C).
Heptan-2-one	The substance is not expected to bioaccumulate (log Pow: 2.26)
Xylene	The substance has a low potential of bioaccumulation. BCF: >8.1 - <25.9
Bounded Carbon Black	The physical and chemical properties of non-nanoforms of carbon black do not indicate a potential to diffuse through membranes of aquatic or terrestrial organisms, because of its inertness, and insolubility in both water and organic solvents.
Talc (non-asbestiform)	Substance is not expected to bioaccumulate (calculated BCF: 3.162 L/kg).
Solvent naphtha (petroleum), light arom.	This substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance. Calculated BCF for constituents of this substance range between 3.16 - 71100 L/kg [QSAR].
Acetone	The substance is Very low potential for bioaccumulation (BCF: 3).
Orthophosphoric Acid	Bioaccumulation studies are not applicable to inorganic substances.
Dibutyltin dilaurate	Low potential for bioaccumulation. Log BCF: 2.91 dimensionless.
Barium Sulfate	Bioconcentration and bioaccumulation is negligible for this substance. BCF (fish; whole body): 37.6 - 98.8 L/kg
4-Chloro- α,α,α -trifluorotoluene	The substance has a low potential for bioaccumulation. BCF (aquatic species): 121.8 dimensionless

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Ethylbenzene	The substance is slightly mobile, therefore slight adsorption to soil is expected (log Koc= 3.12).
Heptan-2-one	This substance is mobile; therefore, adsorption to soil is not expected (log Koc=1.45).
Xylene	Substance is moderately mobile with moderate potential for adsorption to soil and sediment. (Log Koc: 2.73)
Bounded Carbon Black	The deposition in soil or sediments is the most relevant compartment of fate of carbon black in the environment. Carbon is widely distributed in nature and an essential element in the components of all living organisms.
Talc (non-asbestiform)	Substance is mobile in soil with low potential for adsorption to soil and sediment (calculated Koc: 31.82).
Solvent naphtha (petroleum), light arom.	This substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance. Calculated log Koc for constituents of this substance range between 1.71 - 14.70 [QSAR]

AUTO-SEAL 2K BLACK URETHANE SEALER

Name	Result
Acetone	The substance is mobile in soil, Kd = 1.5 l/kg.
Barium Sulfate	Mobility in soil assessment based on KOC/Kd values are not relevant for metals and their inorganic compounds such as this substance.
4-Chloro- α,α,α -trifluorotoluene	Moderately mobile in soil with a low affinity for adsorption. Koc at 20 °C: 420

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Ethylbenzene	The substance is not PBT.
1-Methoxy-2-propanol acetate	Substance is not PBT.
Heptan-2-one	The substance is not PBT.
Xylene	The substance is not PBT.
Bounded Carbon Black	The substance is not PBT.
Talc (non-asbestiform)	The substance is inorganic, and as such the criteria for PBT are not applicable.
Solvent naphtha (petroleum), light arom.	The substance is not PBT. This substance is a UVCB and does not contain constituents included in the SVHC candidate list as PBT/vPvB at concentrations above 0.1%.
Acetone	The substance is not PBT.
Orthophosphoric Acid	PBT assessment does not apply to inorganic substances.
Barium Sulfate	The substance is inorganic. Hence, PBT assessment does not apply.
4-Chloro- α,α,α -trifluorotoluene	The substance is not PBT.

vPvB assessment:

Ethylbenzene	The substance is not vPvB.
1-Methoxy-2-propanol acetate	Substance is not vPvB.
Heptan-2-one	The substance is not vPvB.
Xylene	The substance is not vPvB.
Bounded Carbon Black	The substance is not vPvB.
Talc (non-asbestiform)	The substance is inorganic, and as such the criteria for vPvB are not applicable.
Solvent naphtha (petroleum), light arom.	The substance is not vPvB. This substance is a UVCB and does not contain constituents included in the SVHC candidate list as PBT/vPvB at concentrations above 0.1%.
Acetone	The substance is not vPvB.
Orthophosphoric Acid	vPvB assessment does not apply to inorganic substances.
Barium Sulfate	The substance is inorganic. Hence, vPvB assessment does not apply.
4-Chloro- α,α,α -trifluorotoluene	The substance is not vPvB.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to

AUTO-SEAL 2K BLACK URETHANE SEALER


applicable regulatory entities

Contaminated packages:


Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	UN1263
UN Proper Shipping Name	Paint related material including paint thinning, drying, removing, or reducing compound
UN Transport Hazard Class(es)	3 
Packing Group	II
Environmental Hazards	None
Special Precautions for User	None

International Maritime Dangerous Goods (IMDG)

UN Number	UN1263
UN Proper Shipping Name	Paint related material including paint thinning, drying, removing, or reducing compound
UN Transport Hazard Class(es)	3 
Packing Group	II
Environmental Hazards	None
Special Precautions for User	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA):

100-41-4	Ethylbenzene	Listed - Active
108-65-6	1-Methoxy-2-propanol acetate	Listed - Active
110-43-0	Heptan-2-one	Listed - Active

AUTO-SEAL 2K BLACK URETHANE SEALER

1330-20-7	Xylene	Listed - Active
1318-59-8	Chlorite-group minerals	Not Listed
1333-86-4	Bounded Carbon Black	Listed - Active
14567-73-8	Tremolite (non-asbestiform)	Listed
14807-96-6	Talc (non-asbestiform)	Listed - Active
14808-60-7	Silica, crystalline quartz (respirable)	Listed - Active
42767-92-0	2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-propenoate	Listed - Active
64742-95-6	Solvent naphtha (petroleum), light arom.	Listed - Active
67-64-1	Acetone	Listed - Active
71011-24-0	Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite	Listed - Active
7664-38-2	Orthophosphoric Acid	Listed - Active
77-58-7	Dibutyltin dilaurate	Listed - Active
7727-43-7	Barium Sulfate	Listed - Active
98-56-6	4-Chloro- α,α,α -trifluorotoluene	Listed - Active
9004-36-8	Cellulose, acetate butanoate	Listed - Active

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

100-41-4	Ethylbenzene	Listed
1330-20-7	Xylene	Listed
7727-43-7	Barium Sulfate	Listed

CERCLA:

100-41-4	Ethylbenzene	Listed	1000 lb
1330-20-7	Xylene	Listed	100 lb
67-64-1	Acetone	Listed	5000 lb
7664-38-2	Orthophosphoric Acid	Listed	5000 lbs
7727-43-7	Barium Sulfate	Listed	1000 lb

RCRA:

100-41-4	Ethylbenzene	Listed	F003, D001
1330-20-7	Xylene	Listed	U239
67-64-1	Acetone	Listed	U002

AUTO-SEAL 2K BLACK URETHANE SEALER

7727-43-7	Barium Sulfate	Listed	D005
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Section 112(r) of the Clean Air Act (CAA):

100-41-4	Ethylbenzene	Listed
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Massachusetts Right to Know:

100-41-4	Ethylbenzene	Listed
110-43-0	Heptan-2-one	Listed
1330-20-7	Xylene	Listed
1333-86-4	Bounded Carbon Black	Listed
14807-96-6	Talc (non-asbestiform)	Listed
14808-60-7	Silica, crystalline quartz (respirable)	Listed
67-64-1	Acetone	Listed
7664-38-2	Orthophosphoric Acid	Listed
7727-43-7	Barium Sulfate	Listed

New Jersey Right to Know:

100-41-4	Ethylbenzene	Listed
110-43-0	Heptan-2-one	Listed
1330-20-7	Xylene	Listed
1333-86-4	Bounded Carbon Black	Listed
14807-96-6	Talc (non-asbestiform)	Listed
14808-60-7	Silica, crystalline quartz (respirable)	Listed
67-64-1	Acetone	Listed
7664-38-2	Orthophosphoric Acid	Listed
7727-43-7	Barium Sulfate	Listed
98-56-6	4-Chloro- α,α,α -trifluorotoluene	Listed

New York Right to Know:

100-41-4	Ethylbenzene	Listed
110-43-0	Heptan-2-one	Listed
1330-20-7	Xylene	Listed
1318-59-8	Chlorite-group minerals	Listed
67-64-1	Acetone	Listed
7664-38-2	Orthophosphoric Acid	Listed
77-58-7	Dibutyltin dilaurate	Listed
98-56-6	4-Chloro- α,α,α -trifluorotoluene	Listed

Pennsylvania Right to Know:

100-41-4	Ethylbenzene	Listed
110-43-0	Heptan-2-one	Listed
1330-20-7	Xylene	Listed
1333-86-4	Bounded Carbon Black	Listed
14807-96-6	Talc (non-asbestiform)	Listed
14808-60-7	Silica, crystalline quartz (respirable)	Listed
67-64-1	Acetone	Listed
7664-38-2	Orthophosphoric Acid	Listed
7727-43-7	Barium Sulfate	Listed

AUTO-SEAL 2K BLACK URETHANE SEALER

California Proposition 65:

⚠️WARNING: This product can expose you to chemicals including Ethyl Benzene, Asbestos, Silica, crystalline quartz (respirable) and 4-Chloro- α,α,α -trifluorotoluene which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Additional information: Not determined.

SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet