

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.23.2016

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2K URETHANE CLEAR

SECTION 1: Identification

Product identifier

Product name: 2K URETHANE CLEAR

Product code: 43501, 43504, 43505, 43555



Recommended use of the product and restriction on use

Relevant identified uses: Paint

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

P.O.R. Products

38 Portman Road

New Rochelle, NY 10801

914-636-0700

Emergency telephone number:

United States

ChemTel Inc.

+1 800 255 3924

+1 813 248 0585

SECTION 2: Hazard(s) identification

GHS classification:

Flammable liquids, category 3

Specific target organ toxicity - single exposure, category 3, central nervous system

Specific target organ toxicity - repeated exposure, category 2

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H226 Flammable liquid and vapor.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

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/light/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use agents recommended in section 5 for extinction.
P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P405 Store locked up.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 123-86-4	n-Butyl acetate	10-15
CAS number: 1330-20-7	Aromatic Hydrocarbon	5-10
CAS number: 98-56-6	Parachlorobenzotrifluoride	15-20
CAS number: 77-58-7	Organic Tin Cmpd.	<0.01
CAS number: 100-41-4	Ethyl Benzene	<2

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

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Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Do not use a water stream as an extinguisher

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Use spark-proof tools and explosion-proof equipment

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

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Precautions for safe handling:

- Use only with adequate ventilation.
- Avoid breathing mist or vapor.
- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Take precautionary measures against electrostatic discharges.
- Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Protect from freezing and physical damage.
- Store in a cool, well-ventilated area.
- Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

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
ACGIH	n-Butyl acetate	123-86-4	ACGIH TWA: 150 ppm
	n-Butyl acetate	123-86-4	ACGIH STEL: 200 ppm
	Ethyl Benzene	100-41-4	ACGIH TWA: 20.0 ppm
	Ethyl Benzene	100-41-4	ACGIH STEL: 125.0 ppm
	Aromatic Hydrocarbon	1330-20-7	ACGIH TWA: 100.0 ppm
	Aromatic Hydrocarbon	1330-20-7	ACGIH STEL: 150.0 ppm
	Organic Tin Cmpd.	77-58-7	ACGIH TLV TWA 0.1 mg/m ³ as Sn
	Organic Tin Cmpd.	77-58-7	ACGIH STEL 0.2 mg/m ³
NIOSH	Organic Tin Cmpd.	77-58-7	NIOSH IDLH 25 mg/m ³ as Sn
	Organic Tin Cmpd.	77-58-7	NIOSH REL TWA 0.1 mg/m ³ as Sn
	n-Butyl acetate	123-86-4	NIOSH TWA 150.0 ppm (710 mg/m ³)
	n-Butyl acetate	123-86-4	NIOSH ST 200.0 ppm (950.0 mg/m ³)
	Ethyl Benzene	100-41-4	NIOSH TWA 100.0 ppm 435.0 mg/m ³
	Ethyl Benzene	100-41-4	NIOSH ST 125.0 ppm 545.0 mg/m ³
United States (OSHA)	n-Butyl acetate	123-86-4	OSHA PEL TWA 150.0 ppm (710.0 mg/m ³)
	Ethyl Benzene	100-41-4	OSHA PEL (STEL): 125.0 ppm
	Ethyl Benzene	100-41-4	OSHA TWA 100 ppm 435 mg/m ³
	Aromatic Hydrocarbon	1330-20-7	OSHA TWA 100.0 ppm 435.0 mg/m ³
	Organic Tin Cmpd.	77-58-7	OSHA PEL TWA 0.1 mg/m ³ as Sn

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

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Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.
Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear 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	Not determined or not available.
Flash point (closed cup)	84°F (28.9°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	0.941-0.981 g/mL
Relative density	Not determined or not available.
Solubilities	Not soluble in water.
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	Brookfield 200-250 cps
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.

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Oxidizing properties	Not determined or not available.
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Other information

VOC Content	< 340 g/L
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SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

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
Ethyl Benzene	inhalation	LCLo - Rat - 4,000 ppm/4 h
Aromatic Hydrocarbon	dermal	LD50 - Rat - > 1,700 mg/kg
	inhalation	LC50 - Rat - 5,000 ppm/4 h

Skin corrosion/irritation

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

Product data:

No data available.

Substance data:

Name	Result
Aromatic Hydrocarbon	Irritating to the skin.
Parachlorobenzotrifluoride	Irritating to the skin.
Organic Tin Compd.	Corrosive to the skin.

Serious eye damage/irritation

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

Product data:

No data available.

Substance data:

Name	Result
Parachlorobenzotrifluoride	Irritating effect on the eyes.

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Respiratory or skin sensitization

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

Product data:

No data available.

Substance data:

Name	Result
Organic Tin Cmpd.	Sensitization possible through skin contact.

Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Ethyl Benzene	Group 2B - Possibly carcinogenic to humans
Aromatic Hydrocarbon	Group 3 - Not classifiable as to its carcinogenicity to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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

Product data:

No data available.

Substance data:

Name	Result
Organic Tin Cmpd.	May cause mutagenic effects.

Reproductive toxicity

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

Product data:

No data available.

Substance data:

Name	Result
Organic Tin Cmpd.	May cause developmental toxicity.

Specific target organ toxicity (single exposure)

Assessment: May cause drowsiness or dizziness

Product data:

No data available.

Substance data:

Name	Result
n-Butyl acetate	SE May cause drowsiness or dizziness. - Central nervous system
Ethyl Benzene	Repeated exposure damages the hearing organs.
Parachlorobenzotrifluoride	Component affects the respiratory system.
Organic Tin Cmpd.	Causes damage to organs through prolonged or repeated exposure - Thymus
	Causes damage to organs through single exposure - Thymus

Specific target organ toxicity (repeated exposure)

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Assessment: May cause damage to organs through prolonged or repeated exposure

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

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
Organic Tin Cmpd.	EC50 - Daphnia magna - 0.66 mg/L - 24 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

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 applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	1263
UN proper shipping name	PAINT


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UN transport hazard class(es)	3	
Packing group	III	
Environmental hazards	None	
Special precautions for user	None	
Passenger air/rail	60L	
Cargo aircraft only	220L	
Stowage category	A	

International Maritime Dangerous Goods (IMDG)

UN number	1263	
UN proper shipping name	PAINT	
UN transport hazard class(es)	3	
Packing group	III	
Environmental hazards	None	
Special precautions for user	None	
EmS number	F-E, S-E	
Excepted quantities	E1	
Limited quantity	5L	

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

UN number	1263	
UN proper shipping name	PAINT	
UN transport hazard class(es)	3	
Packing group	III	
Environmental hazards	None	
Special precautions for user	None	
Excepted quantities	E1	
Limited quantity	10L	

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

123-86-4	n-Butyl acetate	Listed
100-41-4	Ethyl Benzene	Listed
1330-20-7	Aromatic Hydrocarbon	Listed
98-56-6	Parachlorobenzotrifluoride	Listed
77-58-7	Organic Tin Cmpd.	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

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SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

100-41-4	Ethyl Benzene	Listed
1330-20-7	Aromatic Hydrocarbon	Listed

CERCLA:

123-86-4	n-Butyl acetate	Listed	5000
100-41-4	Ethyl Benzene	Listed	1000
1330-20-7	Aromatic Hydrocarbon	Listed	100

RCRA:

1330-20-7	Aromatic Hydrocarbon	Listed	
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Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

100-41-4	Ethyl Benzene	Listed
123-86-4	n-Butyl acetate	Listed
1330-20-7	Aromatic Hydrocarbon	Listed
77-58-7	Organic Tin Cmpd.	Not Listed
98-56-6	Parachlorobenzotrifluoride	Not Listed

New Jersey Right to Know:

100-41-4	Ethyl Benzene	Listed
123-86-4	n-Butyl acetate	Not Listed
1330-20-7	Aromatic Hydrocarbon	Listed
77-58-7	Organic Tin Cmpd.	Not Listed
98-56-6	Parachlorobenzotrifluoride	Not Listed

New York Right to Know:

100-41-4	Ethyl Benzene	Listed
123-86-4	n-Butyl acetate	Listed
1330-20-7	Aromatic Hydrocarbon	Listed
77-58-7	Organic Tin Cmpd.	Not Listed
98-56-6	Parachlorobenzotrifluoride	Not Listed

Pennsylvania Right to Know:

100-41-4	Ethyl Benzene	Listed
123-86-4	n-Butyl acetate	Listed
1330-20-7	Aromatic Hydrocarbon	Listed
77-58-7	Organic Tin Cmpd.	Not Listed
98-56-6	Parachlorobenzotrifluoride	Not Listed

California Proposition 65:

⚠WARNING: This product can expose you to Ethyl Benzene, which is known to the State of California to

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cause cancer. For more information go to www.P65Warnings.ca.gov

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.

NFPA: 2-2-0

HMIS: 2-2-0

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End of Safety Data Sheet