

# 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 SAFETY ORANGE

### SECTION 1: Identification

#### Product identifier

**Product name:** 2K URETHANE SAFETY ORANGE

**Trade Name:** 2K URETHANE SAFETY ORANGE

**Product code:** 43341, 43344, 43345

#### 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**

Absolute Coatings

38 Portman Road

New Rochelle, NY 10801

1-800-221-8010

#### 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

Carcinogenicity, category 2

Reproductive toxicity, category 2

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.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

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

#### Precautionary statements:

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

P241 Use explosion-proof electrical/ventilating/light/equipment.

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P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
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 heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
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.  
P308+P313 If exposed or concerned: Get medical advice/attention.  
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	Acrylic Polyol	5-10
CAS number: 1330-20-7	Aromatic Hydrocarbon	5-10
CAS number: 98-56-6	Parachlorobenzotrifluoride	5-10
CAS number: 77-58-7	Organic Tin Cmpd.	<0.01
CAS number: 108-65-6	Pigment Dispersion	15-20
CAS number: 13463-67-7	Titanium Dioxide	<2
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

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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

#### 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

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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

### 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	Acrylic Polyol	123-86-4	ACGIH TWA: 150 ppm
	Organic Tin Cmpd.	77-58-7	ACGIH STEL 0.2 mg/m <sup>3</sup>
	Acrylic Polyol	123-86-4	ACGIH STEL: 200 ppm
	Titanium Dioxide	13463-67-7	ACGIH TLV TWA: 10 mg/m <sup>3</sup>
	Ethyl Benzene	100-41-4	ACGIH TWA: 20.0 ppm
	Ethyl Benzene	100-41-4	ACGIH STEL: 125.0 ppm
	Organic Tin Cmpd.	77-58-7	ACGIH TLV TWA 0.1 mg/m <sup>3</sup> as Sn
United States (OSHA)	Organic Tin Cmpd.	77-58-7	OSHA PEL TWA 0.1 mg/m <sup>3</sup> as Sn
	Titanium Dioxide	13463-67-7	OSHA PEL TWA 15 mg/m <sup>3</sup> (Total dust)
	Acrylic Polyol	123-86-4	OSHA PEL TWA 150.0 ppm (710.0 mg/m <sup>3</sup> )
	Ethyl Benzene	100-41-4	OSHA PEL (STEL): 125.0 ppm
	Ethyl Benzene	100-41-4	OSHA TWA 100 ppm 435 mg/m <sup>3</sup>

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Ethyl Benzene	100-41-4	NIOSH TWA 100.0 ppm 435.0 mg/m <sup>3</sup>
	Organic Tin Cmpd.	77-58-7	NIOSH IDLH 25 mg/m <sup>3</sup> as Sn
	Organic Tin Cmpd.	77-58-7	NIOSH REL TWA 0.1 mg/m <sup>3</sup> as Sn
	Ethyl Benzene	100-41-4	NIOSH ST 125.0 ppm 545.0 mg/m <sup>3</sup>
	Acrylic Polyol	123-86-4	NIOSH ST 200.0 ppm (950.0 mg/m <sup>3</sup> )
WEEL	Pigment Dispersion	108-65-6	WEEL TWA 50.0 ppm

### 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.

### 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	Orange 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.

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<b>Flammability (solid, gas)</b>	Not determined or not available.
<b>Upper flammability/explosive limit</b>	Not determined or not available.
<b>Lower flammability/explosive limit</b>	Not determined or not available.
<b>Vapor pressure</b>	Not determined or not available.
<b>Vapor density</b>	Not determined or not available.
<b>Density</b>	1.06-1.16 g/mL
<b>Relative density</b>	Not determined or not available.
<b>Solubilities</b>	Not determined or not available.
<b>Partition coefficient (n-octanol/water)</b>	Not determined or not available.
<b>Auto/Self-ignition temperature</b>	Not determined or not available.
<b>Decomposition temperature</b>	Not determined or not available.
<b>Dynamic viscosity</b>	500 cP - 600 cP
<b>Kinematic viscosity</b>	Not determined or not available.
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Not determined or not available.

### Other information

#### 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

##### Skin corrosion/irritation

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

**Product data:** No data available.

##### Substance data:

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Name	Result
Parachlorobenzotrifluoride	Irritating to the skin.
Organic Tin Cmpd.	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.

### 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:** Suspected of causing cancer

**Product data:** No data available.

#### Substance data:

Name	Species	Result
Titanium Dioxide	Titanium Dioxide	Airborne, unbound particles of respirable size are known to cause cancer.

### International Agency for Research on Cancer (IARC):

Name	Classification
Ethyl Benzene	Group 2B - Possibly carcinogenic to humans
Titanium Dioxide	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:** Suspected of damaging fertility or the unborn child

**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.

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### Substance data:

Name	Result
Acrylic Polyol	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)

**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



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### SECTION 14: Transport information


#### United States Transportation of dangerous goods (49 CFR DOT)

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

#### 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

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

### SECTION 15: Regulatory information

#### United States regulations

##### Inventory listing (TSCA):

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123-86-4	Acrylic Polyol	Listed
100-41-4	Ethyl Benzene	Listed
108-65-6	Pigment Dispersion	Listed
13463-67-7	Titanium Dioxide	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.

**SARA Section 311/312 hazards:**

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

**SARA Section 302 extremely hazardous substances:** Not determined.

**SARA Section 313 toxic chemicals:**

100-41-4	Ethyl Benzene	Listed
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**CERCLA:**

123-86-4	Acrylic Polyol	Listed	5000
100-41-4	Ethyl Benzene	Listed	1000

**RCRA:** Not determined.

**Section 112(r) of the Clean Air Act (CAA):** Not determined.

**Massachusetts Right to Know:** Not determined.

**New Jersey Right to Know:** Not determined.

**New York Right to Know:** Not determined.

**Pennsylvania Right to Know:** Not determined.

**California Proposition 65:**

WARNING: This product contains a chemical known to the State of California to cause cancer.

100-41-4	Ethyl Benzene
13463-67-7	Titanium Dioxide

## 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**