

# Safety Data Sheet



## 1. Identification

|                             |   |                         |  |
|-----------------------------|---|-------------------------|--|
| <b>Product Name:</b>        | URETHN 1-GL 2PK KACO ENERGY GRAY  | <b>Revision Date:</b>   | 8/7/2018   |
| <b>Product Identifier:</b>  | 202972  | <b>Supersedes Date:</b> | 7/7/2015   |
| <b>Recommended Use:</b>     | Topcoat/Urethane  |                         |  |
| <b>Supplier:</b>            | Rust-Oleum Corporation<br>11 Hawthorn Parkway<br>Vernon Hills, IL 60061<br>USA  | <b>Manufacturer:</b>    | Rust-Oleum Corporation<br>11 Hawthorn Parkway<br>Vernon Hills, IL 60061<br>USA |
|                             | Rust-Oleum Canada (ROCA)<br>200 Confederation Parkway<br>Concord, ON L4K 4T8<br>Canada<br>Emergency Phone: 800-387-3625 |                         |  |
| <b>Preparer:</b>            | Regulatory Department   |                         |  |
| <b>Emergency Telephone:</b> | 24 Hour Hotline: 847-367-7700   |                         |  |

## 2. Hazard Identification

### Classification

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

36% of the mixture consists of ingredient(s) of unknown acute toxicity.

### GHS HAZARD STATEMENTS

|                                       |      |                                     |
|---------------------------------------|------|-------------------------------------|
| Flammable Liquid, category 2          | H225 | Highly flammable liquid and vapour. |
| Germ Cell Mutagenicity, category 1B   | H340 | May cause genetic defects.          |
| Carcinogenicity, category 1B          | H350 | May cause cancer.                   |
| STOT, single exposure, category 3, NE | H336 | May cause drowsiness or dizziness.  |
| Eye Irritation, category 2            | H319 | Causes serious eye irritation.      |

Respiratory Sensitizer, category 1

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**GHS LABEL PRECAUTIONARY STATEMENTS**

|                |  |
|----------------|--|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P370+P378      | In case of fire: Use alcohol film forming foam, carbon dioxide, dry chemical, dry sand to extinguish.                            |
| P403+P235      | Store in a well-ventilated place. Keep cool.   |
| P501           | Dispose of contents/container in accordance with local, regional and national regulations.                                       |
| P201           | Obtain special instructions before use.  |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.   |
| P405           | Store locked up.   |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.   |
| P271           | Use only outdoors or in a well-ventilated area.  |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P312           | Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.   |
| P264           | Wash hands thoroughly after handling.  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P285           | In case of inadequate ventilation wear respiratory protection.   |
| P342+P311      | If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  |

**GHS SDS PRECAUTIONARY STATEMENTS**

|      |  |
|------|--|
| P240 | Ground/bond container and receiving equipment. |
|------|--|

|      |  |
|------|--|
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| P242 | Use only non-sparking tools.                                   |
| P243 | Take precautionary measures against static discharge.          |

### 3. Composition / Information On Ingredients

#### HAZARDOUS SUBSTANCES

| <u>Chemical Name</u>                             | <u>CAS-No.</u> | <u>Wt.%</u> | <u>GHS Symbols</u> | <u>GHS Statements</u> |
|--|----------------|-------------|--------------------|-----------------------|
| Titanium Dioxide                                 | 13463-67-7     | 22          | Not Available      | Not Available         |
| Methyl Acetate                                   | 79-20-9        | 14          | GHS02-GHS07        | H225-319-336          |
| Methyl n-Amyl Ketone                             | 110-43-0       | 8.8         | GHS02-GHS07        | H226-302-332-336      |
| n-Butyl Acetate                                  | 123-86-4       | 6.7         | GHS02-GHS07        | H226-336              |
| Xylenes (o-, m-, p- isomers)                     | 1330-20-7      | 2.8         | GHS02-GHS07        | H226-315-319-332      |
| Ethylbenzene                                     | 100-41-4       | 0.7         | GHS02-GHS07-GHS08  | H225-304-332-351-373  |
| bis(1,2,2,6,6-Pentamethyl-4-Piperidiny) Sebacate | 41556-26-7     | 0.5         | GHS07              | H317                  |
| Solvent Naphtha, Light Aromatic                  | 64742-95-6     | 0.3         | GHS07-GHS08        | H304-332-340-350      |
| Carbon Black                                     | 1333-86-4      | 0.3         | Not Available      | Not Available         |
| Methanol   | 67-56-1        | 0.3         | GHS02-GHS06-GHS08  | H225-331-370          |
| p-Toluenesulfonyl Isocyanate                     | 4083-64-1      | 0.3         | GHS06-GHS08        | H315-319-331-334-335  |
| Ethylene Glycol Monobutyl Ether                  | 111-76-2       | 0.2         | GHS07              | H302-312-315-319-332  |
| 2,4,7,9-Tetramethyl-5-Decyne-4,7-Diol            | 126-86-3       | 0.2         | GHS05-GHS07        | H302-312-317-318      |

### 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

### 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** No unusual fire or explosion hazards noted. Closed containers may explode when exposed to extreme heat due to buildup of steam. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. **FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!** Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Perforation of the pressurized container may cause bursting of the can.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated. Full protective equipment including self-contained breathing apparatus should be used.

**Special Fire and Explosion Hazard (Combustible Dust):** No Information

## 6. Accidental Release Measures

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. Contain spilled liquid with sand or earth. **DO NOT** use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class II combustible liquids.

**Advice on Safe Handling of Combustible Dust:** No Information

## 8. Exposure Controls / Personal Protection

| Chemical Name                                    | CAS-No.    | Weight %<br>Less Than | ACGIH TLV-TWA | ACGIH TLV-STEL | OSHA PEL-TWA | OSHA PEL-CEILING |
|--|------------|-----------------------|---------------|----------------|--------------|------------------|
| Titanium Dioxide                                 | 13463-67-7 | 25.0                  | 10 mg/m3      | N.E.           | 15 mg/m3     | N.E.             |
| Methyl Acetate                                   | 79-20-9    | 15.0                  | 200 ppm       | 250 ppm        | 200 ppm      | N.E.             |
| Methyl n-Amyl Ketone                             | 110-43-0   | 10.0                  | 50 ppm        | N.E.           | 100 ppm      | N.E.             |
| n-Butyl Acetate                                  | 123-86-4   | 10.0                  | 50 ppm        | 150 ppm        | 150 ppm      | N.E.             |
| Xylenes (o-, m-, p- isomers)                     | 1330-20-7  | 5.0                   | 100 ppm       | 150 ppm        | 100 ppm      | N.E.             |
| Ethylbenzene                                     | 100-41-4   | 1.0                   | 20 ppm        | N.E.           | 100 ppm      | N.E.             |
| bis(1,2,2,6,6-Pentamethyl-4-Piperidiny) Sebacate | 41556-26-7 | 1.0                   | N.E.          | N.E.           | N.E.         | N.E.             |
| Solvent Naphtha, Light Aromatic                  | 64742-95-6 | 1.0                   | N.E.          | N.E.           | N.E.         | N.E.             |
| Carbon Black                                     | 1333-86-4  | 1.0                   | 3 mg/m3       | N.E.           | 3.5 mg/m3    | N.E.             |
| Methanol   | 67-56-1    | 1.0                   | 200 ppm       | 250 ppm        | 200 ppm      | N.E.             |
| p-Toluenesulfonyl Isocyanate                     | 4083-64-1  | 1.0                   | N.E.          | N.E.           | N.E.         | N.E.             |
| 2,4,7,9-Tetramethyl-5-Decyne-4,7-Diol            | 126-86-3   | 1.0                   | N.E.          | N.E.           | N.E.         | N.E.             |
| Ethylene Glycol Monobutyl Ether                  | 111-76-2   | 1.0                   | 20 ppm        | N.E.           | 50 ppm       | N.E.             |

### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

**EYE PROTECTION:** Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

**Engineering Measures for Combustible Dust:** No Information

## 9. Physical and Chemical Properties

|                                 |                     |  |            |
|---------------------------------|---------------------|--|------------|
| <b>Appearance:</b>              | Liquid              | <b>Physical State:</b>                         | Liquid     |
| <b>Odor:</b>                    | Solvent Like        | <b>Odor Threshold:</b>                         | N.E.       |
| <b>Relative Density:</b>        | 1.216               | <b>pH:</b>                                     | N.A.       |
| <b>Freeze Point, °C:</b>        | N.D.                | <b>Viscosity:</b>                              | N.D.       |
| <b>Solubility in Water:</b>     | Negligible          | <b>Partition Coefficient, n-octanol/water:</b> | N.D.       |
| <b>Decomposition Temp., °C:</b> | N.D.                | <b>Explosive Limits, vol%:</b>                 | 1.0 - 16.0 |
| <b>Boiling Range, °C:</b>       | 56 - 537            | <b>Flash Point, °C:</b>                        | -10        |
| <b>Flammability:</b>            | Supports Combustion | <b>Auto-ignition Temp., °C:</b>                | N.D.       |
| <b>Evaporation Rate:</b>        | Slower than Ether   | <b>Vapor Pressure:</b>                         | N.D.       |
| <b>Vapor Density:</b>           | Heavier than Air    |  |            |

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

**INCOMPATIBILITY:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

## 11. Toxicological Information

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Causes skin irritation. Allergic reactions are possible. May cause skin irritation. Allergic reactions are possible.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Poison, may be fatal or cause blindness if swallowed. Harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010) Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and

blurred vision) and/or damage.

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Chemical Name</u>                             | <u>Oral LD50</u> | <u>Dermal LD50</u>  | <u>Vapor LC50</u>   |
|----------------|--|------------------|---------------------|---------------------|
| 13463-67-7     | Titanium Dioxide                                 | >10000 mg/kg Rat | 2500 mg/kg          | N.E.                |
| 79-20-9        | Methyl Acetate                                   | >5000 mg/kg Rat  | >5000 mg/kg Rabbit  | >49 mg/L Rat        |
| 110-43-0       | Methyl n-Amyl Ketone                             | 1600 mg/kg Rat   | 10199 mg/kg Rabbit  | N.E.                |
| 123-86-4       | n-Butyl Acetate                                  | 10768 mg/kg Rat  | >17600 mg/kg Rabbit | > 21 mg/L Rat       |
| 1330-20-7      | Xylenes (o-, m-, p- isomers)                     | 3500 mg/kg Rat   | >4350 mg/kg Rabbit  | 29.08 mg/L Rat      |
| 100-41-4       | Ethylbenzene                                     | 3500 mg/kg Rat   | 15400 mg/kg Rabbit  | 17.4 mg/L Rat       |
| 41556-26-7     | bis(1,2,2,6,6-Pentamethyl-4-Piperidiny) Sebacate | 2615 mg/kg Rat   | N.E.                | N.E.                |
| 64742-95-6     | Solvent Naphtha, Light Aromatic                  | 8400 mg/kg Rat   | >2000 mg/kg Rabbit  | N.E.                |
| 1333-86-4      | Carbon Black                                     | >15400 mg/kg Rat | N.E.                | N.E.                |
| 67-56-1        | Methanol   | 6200 mg/kg Rat   | 15840 mg/kg Rabbit  | N.E.                |
| 4083-64-1      | p-Toluenesulfonyl Isocyanate                     | 2234 mg/kg Rat   | N.E.                | >640 ppm (Rat, 1Hr) |
| 111-76-2       | Ethylene Glycol Monobutyl Ether                  | 470 mg/kg Rat    | 1,060 mg/kg Rabbit  | 11 mg/L             |
| 126-86-3       | 2,4,7,9-Tetramethyl-5-Decyne-4,7-Diol            | >500 mg/kg Rat   | >1000 mg/kg Rabbit  | N.E.                |

N.E. - Not Established

## 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

## 14. Transport Information

|                              | <u>Domestic (USDOT)</u>              | <u>International (IMDG)</u> | <u>Air (IATA)</u> | <u>TDG (Canada)</u>                  |
|------------------------------|--------------------------------------|-----------------------------|-------------------|--------------------------------------|
| <b>UN Number:</b>            | N.A.                                 | 1263                        | 1263              | N.A.                                 |
| <b>Proper Shipping Name:</b> | Paint Products in Limited Quantities | Paint                       | Paint             | Paint Products in Limited Quantities |
| <b>Hazard Class:</b>         | N.A.                                 | 3                           | 3                 | N.A.                                 |
| <b>Packing Group:</b>        | N.A.                                 | II                          | II                | N.A.                                 |
| <b>Limited Quantity:</b>     | Yes                                  | Yes                         | No                | Yes                                  |

## 15. Regulatory Information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Flammable (gases, aerosols, liquids, or solids), Carcinogenicity, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

**Sara Section 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

| <u>Chemical Name</u>            | <u>CAS-No.</u> |
|---------------------------------|----------------|
| Xylenes (o-, m-, p- isomers)    | 1330-20-7      |
| Ethylbenzene                    | 100-41-4       |
| Methanol                        | 67-56-1        |
| Ethylene Glycol Monobutyl Ether | 111-76-2       |

**Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

**16. Other Information****HMIS RATINGS**

Health: 2\*      Flammability: 3      Physical Hazard: 0      Personal Protection: X

**NFPA RATINGS**

Health: 2      Flammability: 3      Instability: 0

Volatile Organic Compounds      297 g/L

SDS REVISION DATE:      8/7/2018

REASON FOR REVISION:      Revision Description Changed  
Substance and/or Product Properties Changed in Section(s):  
01 - Identification  
02 - Hazard Identification  
03 - Composition/Information on Ingredients  
08 - Exposure Controls/Personal Protection  
09 - Physical & Chemical Properties  
11 - Toxicological Information  
15 - Regulatory Information  
16 - Other Information  
Product Composition Changed  
Substance Hazard Threshold % Changed  
Substance Chemical Name Changed  
Substance CAS Number Changed  
Substance Regulatory CAS Number Changed  
Substance Hazardous Flag Changed  
Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.