



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ULTRA-GLO 2.8 VOC Single Stage Urethane Topcoat

MANUFACTURER:

COVENTRY COATINGS CORP. dba Kirker Automotive Finishes

89 Taft Ave.

Newburgh, NY 12550

USA: 1-800-307-7951 or (845) 562-5666

EMERGENCY CONTACT FOR SPILL, FIRE, EXPLOSION: CHEM-TREC 1-800-424-9300

PRODUCT CODES:

UA-10375	Sunkist Pearl	UA-10378	Mandarin Pearl	UA-10384	Omaha Orange
UA-10399	Hugger Orange	UA-10637	School Bus Yellow	UA-11024	Lemon Drop Pearl
UA-11102	Performance Yellow	UA-11105	Viper Yellow	UA-11115	Mocha Frost Pearl Metallic
UA-11120	Mayan Gold Metallic	UA-11125	Bright Orange Metallic	UA-11134	Sun Burnt Copper Pearl
UA-11138	Bourbon Brown Pearl	UA-31239	Antifreeze Pearl	UA-31240	Sublime
UA-31250	Sour Apple Green Metallic	UA-31252	Dark Jade Metallic	UA-31255	Olive Drab Green (Matte Finish)
UA-31263	Mack Green (40496)	UA-31264	Pale Agave Metallic	UA-31267	Bright Calypso Green Metallic
UA-41070	Pacific Blue	UA-41075	Bright Blue Metallic	UA-41077	Mack Blue (10701)
UA-41082	Coastal Blue	UA-41085	Light Sapphire Blue Metallic	UA-41087	Blue Metallic
UA-41089	Bright Aqua Pearl	UA-41090	Ultra Blue Pearl	UA-41092	Royal Blue Pearl
UA-41094	Cancun Lagoon Pearl	UA-41095	Sonic Blue Pearl	UA-41096	Bright Cobalt Blue Metallic
UA-51375	Sugar Plum Pearl Metallic	UA-51377	Grape Jelly Pearl	UA-51400	Candy Apple Red
UA-51402	Merlot	UA-51416	Mack Red (72182)	UA-51425	Inferno Red Metallic
UA-51429	Flame Red	UA-51430	Habañero Metallic	UA-51435	Cherry Bomb Pearl
UA-51438	Dark Garnet Red Metallic	UA-51439	Viper Red	UA-51441	Performance Red
UA-61215	Quicksilver Metallic	UA-61231	Silver Metallic	UA-61232	Bright Silver Metallic
UA-61235	Platinum Silver Metallic	UA-61240	Oxford Gray	UA-61260	Gray Metallic
UA-61264	Carbon Fiber Metallic	UA-61265	Gunmetal Metallic	UA-61268	Medium Charcoal Gray Metallic
UA-70330	Super Jet Black	UA-70333	Ultimate Jet Black	UA-70355	Black Gold Pearl
UA-70356	Black Cherry Pearl	UA-70357	Black Starburst Pearl	UA-70358	Black Sapphire Metallic
UA-70359	Brilliant Black Metallic	UA-81030	Pure White	UA-81044	Arctic Blast Pearl
UA-81496	Fleet White (GM Code 12)	UA-81500	Wimbledon White (Ford Code 9A)	UA-81508	Mack White (08282)
UA-81522	White (GM Code 40)	UA-81525	Bright White (Dodge Code GW 7)		

SECTION 2: HAZARD IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification: FLAMMABLE LIQUIDS: Category 2

ACUTE TOXICITY Inhalation:

ACUTE TOXICITY Oral:

ACUTE TOXICITY Oral:

Category 4

ACUTE TOXICITY Dermal:

Category 4

ASPIRATION HAZARD:

CARCINOGENICITY:

CATEGORY 2

SKIN IRRITATION:

CATEGORY 2

EYE IRRITATION:

Category 2

SPECIFIC TARGET ORGAN TOXICITY:

SINGLE EXPOSURE: Category 3 (Respiratory, Central Nervous System)
REPEATED EXPOSURE: Category 2 (Liver, Kidney, Central Nervous System)

GHS Label Elements: PICTOGRAMS







SIGNAL WORD: Danger

Hazard Statements: Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin, causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation, drowsiness or dizziness.

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Prevention: Read all warning statements on all labels for this and any other products to be mixed with it prior to use. Do not handle until all safety

precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and other tools or equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust, fumes, gas, mist, vapors or spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Use personal protective equipment as required, (see Section 8). Wear protective gloves, protective clothing and eye/face protection. Wear an appropriate, properly fitted fresh air supplied respirator (NIOSH-approved TC19 or equivalent) during and after application, and until all organic solvent vapors and spray mists are exhausted, or any time airborne contaminant levels exceed exposure limits indicated in Section 8.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing. If eye irritation persists: Get medical attention. If exposed or concerned: Get medical attention. Call a POISON CENTER, doctor or physician if you feel unwell.

If medical advice is needed, have product container/label and Safety Data Sheet at hand.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish, do not use water, see Section 5.

Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal:

Dispose of unused amounts and empty container with an approved waste disposal facility only, in accordance with all local, regional and national regulations. Avoid release to environment. If spilled, contain material with inert absorbent, in compliance with local, regional and

national regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% by Weight
ACETONE	67-64-1	15 – 25 %
TITANIUM DIOXIDE	13463-67-7	20 – 35 %
METHYL AMYL KETONE	110-43-0	10 – 20 %
BUTYL ACETATE	123-86-4	5 – 10 %
XYLENE	1330-20-7	5 – 10 %
TERTIARY BUTYL ACETATE	540-88-5	1 – 5 %

SECTION 4: FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, check for and remove contact lenses. Seek

immediate medical attention.

Skin: Remove contaminated clothing. Immediately flush exposed area with large amounts of water. If symptoms persist, seek medical

attention. Wash clothing separately and clean shoes before reuse.

Ingestion: Seek immediate medical attention, contact physician or poison control center. Do NOT induce vomiting. Never give anything by mouth to

an unconscious person.

Inhalation: Seek immediate medical attention. Remove from exposure to fresh air. If not breathing or if breathing is irregular, provide artificial

respiration or oxygen by trained personnel; rescuers should put on appropriate protective gear. To prevent aspiration, keep head below

knees.

Notes to Physician: This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding

whether to induce vomiting. Symptoms of poisoning may appear several hours after exposure.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Carbon Dioxide, Dry Chemical, Alcohol-resistant Foam. Do not use water, material will float and may ignite on surface of water.

Fire Fighting Procedures:

Fight as volatile liquid fire. Wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Eliminate all sources of ignition. Evacuate unnecessary personnel. Use water spray to cool containers with caution, avoid spreading burning liquid. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

Unusual Fire and Explosion Hazard:

Highly flammable liquid and vapor. Vapors can travel to a source of ignition and flash back. Vapors/dust may cause flash fire or explosion. This material may be ignited by heat, sparks, flame or static electricity. Closed containers may explode when exposed to extreme heat. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Environmental Precautions:

Avoid runoff and contact with soil, drains, sewers and waterways. Contact appropriate authority if spill is in excess of reportable quantity, in compliance with local, regional, and national regulations.

Personal Precautions: Eliminate all ignition sources. No smoking, do not use flares. Contact emergency personnel. Evacuate the spill area and keep unnecessary, unprotected personnel away. Do not breathe vapors, use suitable personal protective equipment. Do not touch or walk

through spilled material. Prevent additional discharge of material if able to do so safely. Ventilate spill area.

Method of Cleaning Up: For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material, or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal using non-sparking

> Dispose of spilled material and contaminated absorbent material in compliance with local and national regulations, use a licensed waste disposal contractor, and refer to Section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Use only in a well ventilated area, with appropriate personal protective equipment, (see section 8). Do not eat, drink or smoke when handling this material. Wash hands and face before eating, drinking or smoking. Do not breathe vapor, fumes or mist. Do not get in eyes, or on skin, or clothing.

Always open containers slowly to allow any excess pressure to vent. Containers should be grounded when pouring. Take precautionary measures against static discharge. When transferring, follow proper grounding procedures. Use spark-proof tools and explosion proof

This material is part of a multiple component system, read the Safety Data Sheet(s) for all components before mixing, as the mixture will have the hazards of all of its parts. Empty containers retain product residue and can be hazardous. Do not reuse containers

Conditions for Safe Storage, Including Incompatibilities:

Store in accordance with local regulations. Store locked up. Keep container closed when not in use. Isolate from heat, flame, sparks, pilot lights, smoking materials and other sources of ignition. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated, explosion proof area. Protect from direct sunlight. KEEP OUT OF REACH OF CHILDREN AND PETS AT ALL TIMES

SECTION 8: EXPOSURE CONTROLS\PERSONAL PROTECTION

Ingredient Name	CAS	Exposure Limits
ACETONE	67-64-1	ACGIH TWA 500 ppm OSHA PEL TWA 1,000 ppm
BUTYL ACETATE	123-86-4	ACGIH TWA 150 ppm OSHA PEL TWA 150 ppm
METHYL AMYL KETONE	110-43-0	ACGIH TWA 50 ppm OSHA PEL TWA 100 ppm
TERTIARY BUTYL ACETATE	540-88-5	ACGIH TWA 200 ppm OSHA PEL TWA 200 ppm
TITANIUM DIOXIDE	13463-67-7	ACGIH TLV 10mg/m ³ OSHA PEL TWA 15mg/m ³ dust
XYLENE	1330-20-7	ACGIH TWA 100 ppm OSHA PEL TWA 100 ppm

Engineering Controls:

Provide explosion proof exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal Protective Equipment

Eyes and Face: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

Skin: Wear impervious gloves to prevent contact with the skin. Where contact is likely, wear chemical resistant gloves, a chemical suit, long

sleeves, rubber boots, and chemical safety goggles plus a face shield.

Respiratory: Wear an appropriate, properly fitted fresh-air supplied respirator, (NIOSH-approved TC-19C or equivalent), during and after application,

until all organic vapors and spray mists are exhausted or any time airborne contaminate levels exceed exposure limits. Follow respirator

manufacturer's directions and observe OSHA regulations for respirator use (29 cfr 1910.134).

Work Hygienic Practices:

Do not eat, drink, or smoke in areas where this material is used. Do not breathe vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Heavier Than Air

Physical State: Liquid

Color: Liquid in assorted colors by part number

Odor: Typical Odor Threshold: Not available pH: Not available Melting Point: Not applicable **Boiling Point:** 133°F Flash Point and Method: -4°F TCC **Evaporation Rate:** Not available Flammability (Solid/Gas): Not applicable Flammable Limits: .5 - 13.0 Vapor Pressure: Not available Vapor Density:

Density (lbs./gl): 7.7 - 11.0 Specific Gravity: .9 – 1.20
% Solubility in Water: Not available
Octanol/Water Partition Coefficient: Not available
Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: 54 – 56 KU

VOC INFORMATION: Coating Category: Low-VOC Single Stage Topcoat.

VOC content (as supplied) will vary by color, but will not exceed 2.8 lbs/gallon RTS, when mixed as directed. Please see information on

product label for specific VOC contents.

SECTION 10: STABILITY AND REACTIVITY

Hazardous Polymerization:

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid: Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke: extinguish all

Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke; extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, tools, appliances and any other possible sources of ignition prior to spray application, during use and until all

vapors are exhausted from the area.

Chemical Stability: The product is stable. Avoid heat, open flame, sparks, static electricity, freezing.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, and possible oxides of nitrogen.

Incompatible Materials: Alkaline materials, strong acids and oxidizing materials.

Possibility of Hazardous Reactions:

Under normal conditions of use and storage, hazardous reactions will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Available ingredient data is listed below:

ACETONE (67-64-1)

Acute Dermal Toxicity LD50: >7,426 mg/kg (guinea pig)
Acute Inhalation Toxicity LC50: 32,000 ppm 4hrs (rat)
Acute Oral Toxicity LD50: 5,800 mg/kg (rat)

Target Organ, Single Exposure Category 3: Respiratory, Central Nervous System, May cause respiratory irritation, drowsiness or dizziness.

Eye Irritation Category 2: Causes eye irritation.

BUTYL ACETATE (123-86-4)

Acute Dermal Toxicity LD50: >14,112 mg/kg (rabbit)
Acute Oral Toxicity LD50: 12,789 mg/kg (rat)

Target Organ, Single Exposure Category 3: Central Nervous System, May cause drowsiness or dizziness.

METHYL AMYL KETONE (110-43-0)

Acute Inhalation Toxicity

Acute Oral Toxicity

LC50: >16.7 mg/l 4hrs (rat)

Category 4 Harmful if inhaled.

Category 4 Harmful if swallowed.

Category 3: Central Nervous System, May cause drowsiness or dizziness.

TERTIARY BUTYL ACETATE (540-88-5)

Acute Dermal Toxicity LD50: >2,000 mg/kg

Acute Inhalation Toxicity LC50: 12.52 mg/l 4hrs Category 4 Harmful if inhaled.

Acute Oral Toxicity LD50: 4,500 mg/kg

Target Organ, Single Exposure Category 3: Respiratory, Central Nervous System, May cause respiratory irritation, drowsiness or dizziness.

TITANIUM DIOXIDE (13463-67-7)

Acute Dermal Toxicity LD50: >5,000 mg/kg (rabbit)
Acute Inhalation Toxicity LC50: >6.8 mg/l 4hrs (rat)
Acute Oral Toxicity LD50: >5,000 mg/kg (rat)

Carcinogenicity Classification IARC Group 2B Suspected of causing cancer.

XYLENE (1330-20-7)

Acute Dermal Toxicity LD50: >4,200 mg/kg (rabbit) Category 4 Harmful in contact with skin.

Acute Inhalation Toxicity LC50: >20 mg/l 4hrs (rat) Category 4 Harmful if inhaled.

Acute Oral Toxicity LD50: 3,523 mg/kg (rat)

Aspiration Toxicity

Category 1: May be fatal if swallowed and enters airways.

Target Organ, Single Exposure

Category 3: Respiratory, May cause respiratory irritation.

Target Organ, Repeated Exposure Category 2: Liver, Kidney, Central Nervous System, May cause damage to organs through prolonged or repeated exposure.

Eye Irritation Category 2A: Causes serious eye irritation.
Skin Irritation Category 2: Causes skin irritation.

Carcinogenicity Classification Contains Ethyl Benzene: IARC Group 2B Suspected of causing cancer.

SECTION 12: ECOLOGICAL INFORMATION

Available ingredient data is listed below:

ACETONE (67-64-1)

Toxicity to fish

Oncorhynchus mykiss (rainbow trout)

LC50: 5,540 mg/l 96hrs

Toxicity to daphnia and other aquatic invertebrate

Daphnia magna (Water flea)

EC50: 12,600 mg/l 48hrs

Toxicity to algae

Chlorella pyrenoidosa (algae)

EC50: 3,020 mg/l 14 days

Persistence and degradability

Biodegradability

Readily, 28 days 78% degraded

BUTYL ACETATE (123-86-4)

Toxicity to fish Pimephales promelas (flathead minnow) LC50: 18 mg/l 96hrs
Toxicity to daphnia and other aquatic invertebrate daphnia magna (Water flea) LC50: 44 mg/l 48hrs
Toxicity to algae Desmodesmus subspicatus (green algae) ErC50: 648 mg/l 72 hrs

Persistence and degradability
Bioaccumulative potential

METHYL AMYL KETONE (110-43-0)

Toxicity to fish Pimephales promelas (flathead minnow) LC50: 131 mg/l 96hrs
Toxicity to algae Selenastrum capricornutum (green algae) ErC50: 98.2 MG/L 72 hrs
Persistence and degradability Readily, 28 days 69% degraded
Bioaccumulative potential Partition coefficient: n-octanol/water Log Pow: 1,98

TERTIARY BUTYL ACETATE (540-88-5)

Acute aquatic toxicity

Harmful to aquatic life.

Toxicity to fish

Low acute toxicity to fish.

Toxicity to daphnia and other aquatic invertebrate

Low acute toxicity to aquatic invertebrates.

Toxicity to algae

Low acute toxicity to aquatic invertebrates.

Pseudokirchneriella subcapitata (green algae)

EC50: 16 ml/l 72hrs

Harmful to algae. Can inhibit growth of aquatic algae

Toxicity to bacteria

High concentrations may be harmful to sewage treatment plant microbes 1.5 mg/l

Persistence and degradability Biodegradability Readily, 28 days, 50% degraded

Bioaccumulative potential Not expected to bioaccumulate Bioaccumulation factor: 6.7

XYLENE (1330-20-7)

Acute aquatic toxicity Expected to be toxic to aquatic organisms.

Toxicity to fish Oncorhynchus mykiss (rainbow trout)

Toxicity to fish

Oncorhynchus mykiss (rainbow trout)

LC50: 2.6 mg/l 96hrs

Toxicity to daphnia and other aquatic invertebrate

Daphnia magna (Water flea)

EC50: 1 mg/l 24hrs

Toxicity to algae

Pseudokirchneriella subcapitata (green algae)

ErC50: 4.36 mg/l 73hrs

Persistence and degradability Biodegradability Readily, 28 days >70% degraded

Bioaccumulative potential Partition coefficient: n-octanol/water Log Kow: 3.12 - 3.16

SECTION 13: DISPOSAL CONSIDERATIONS

Recommendations: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection, waste disposal legislation and any regional local authority requirements. Empty containers should be disposed of through an approved waste management facility. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, ensure conformity to all applicable hazardous waste regulations, and

consult your local or regional authorities.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER: UN1263

UN PROPER SHIPPING NAME: PAINT TRANSPORT HAZARD CLASS: 3

PACKING GROUP: II

SPECIAL PRECAUTIONS: The listed transportation information applies only to ground transport and does not address regulatory variations due to changes in

package size, mode of shipment or other regulatory descriptors. This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the shipper and the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Local Government regulations and rules

should prevail.

SECTION 15: REGULATORY INFORMATION

United States Federal Regulations:

OSHA: OSHA Hazard Communication Standard 29 CFR 1910.1200

A component(s) of this product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR

1910.1200.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA RQ - 40 CFR302.4(a): List of Hazardous Substances and Reportable Quantities (RQ)

ACETONE 67-64-1 5,000 lbs.
BUTYL ACETATE 123-86-4 5,000 lbs.
TERTIARY BUTYL ACETATE 540-88-5 5,000 lbs.
XYLENE 1330-20-7 100 lbs.
Xylene Component: ETHYL BENZENE 100-41-4 1,000 lbs.

SARA Section 311/312 Hazard Category - 40 CFR 370.2

This product is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 Components - 40 CFR 372.65

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

Reauthorization Act of 1966 (SARA Title III) and 40 CFR 372.

XYLENE 1330-20-7

Xylene Component: ETHYL BENZENE 100-41-4

STATE REGULATIONS:

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

ACETONE 67-64-1 Cancer, birth defects or other reproductive harm

Xylene Component: ETHYL BENZENE 100-41-4 Cancer

New Jersey, Pennsylvania, Massachusetts

ACETONE 67-64-1
BUTYL ACETATE 123-86-4
METHYL AMYL KETONE 110-43-0
TERTIARY BUTYL ACETATE 540-88-5
TITANIUM DIOXIDE 13463-67-7
XYLENE 1330-20-7
Xylene Component: ETHYL BENZENE 100-41-4

SECTION 16: OTHER INFORMATION

HMIS RATING

Health: 3
Flammability: 3
Personal Hazard: 1
Personal Protection: J

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

DISCLAIMER: The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date. Coventry Coatings Corp. makes no representation, warranty or guarantee as to the completeness or accuracy thereof. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

DATE ISSUED: 3/01/2018 Version No.: 2018SSU-5