

SAFETY DATA SHEET



Date of Issue / Date of Revision : February 5, 2019
Version : 2

Section 1. Identification

Product Name : 2K Standard Polyurethane Activator
Product Code : UA-41
Alias Codes : UA-041
Supplier : Bayou Innovations, LLC dba UreChem Paints
38 South Park Drive
Perkinston, Ms 39573
Email: info@urekem-paints.com

Emergency Telephone Number : 1-800-255-3924 (Available 24 hours a day)

Section 2. Hazards Identification

*** EMERGENCY OVERVIEW ***: Flammable liquid and vapor. May be fatal if swallowed and enters airway. Suspect cancer hazard.

GHS Classification : Acute Tox. 4 Inhalation, Asp. Tox. 1, Carc. 2, Eye Irrit. 2, Flamm. Liq. 3, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 NE, STOT SE 3 RTI

GHS Label Pictograms :



Signal Word : Danger

GHS Hazard Statements

Flammable liquid, category 3	H226	Flammable liquid and vapor.
Aspiration Hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, Cat 4	H332	Harmful if inhaled.
Respiratory Sensitizer, Cat 1	H334	May cause allergy or asthma symptoms or breathing difficulties if Inhaled.
STOT, single exposure, cat 3 RTI	H335	May cause respiratory irritation.
STOT, single exposure, cat 3 NE	H336	May cause drowsiness or dizziness.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, cat 2	H373	May cause damage to organs through prolonged or repeated exposure.

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Section 2. Hazards Identification

Precautionary Statements

- Prevention** :
- P201: Obtain special instructions before use.
 - P202: Do not handle until all safety precautions have been read and understood.
 - P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 - 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.
 - P260: Do not breathe dust/fume/gas/mist/vapors/ spray.
 - P264: Wash thoroughly after handling.
 - P271: Use only outdoors or in a well-ventilated area.
 - P272: Contaminated work clothing should not be allowed out of the workplace.
 - P280: Wear protective gloves/protective clothing/eye protection/face protection.
 - P284: [In case of inadequate ventilation] wear respiratory protection.
- Response** :
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician
 - P302+P352: IF ON SKIN: Wash with plenty of water
 - P303+P361+P353: IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water/shower.
 - P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P308+P313: IF exposed or concerned: Get medical advice/attention.
 - P312: Call a POISON CENTER/doctor/physician if you feel unwell.
 - P314: Get medical advice/attention if you feel unwell.
 - P321: Specific treatment (see first aid section on this label).
 - P331: Do NOT induce vomiting.
 - P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 - P337+P313: If eye irritation persists: Get medical advice/attention.
 - P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician
 - P362+P364: Take off contaminated clothing and wash it before reuse.
 - P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.
- Storage** :
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 - P403+P235: Store in a well-ventilated place. Keep cool.
 - P405: Store locked up.
- Disposal** :
- P501: Dispose of contents/containers in accordance with local/regional/ national/international regulations..

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Section 3. Composition / Information on Ingredients

Chemical Name	CAS-No.	Wt.%	GHS Symbols	GHS Statements
Homopolymer of hexamethylene diisocyanate	28182-81-2	25-50	GHS02-GHS06-GHS08	H226-317-331-334-335-351-373
n-Butyl Acetate	123-86-4	25-50	GHS02-GHS07	H226-336
Xylene	1330-20-7	10-25	GHS02-GHS07-GHS08	H226-304-315-319-332-335-351-373
Isophorone diisocyanate based polyisocyanate in organic solvent	53880-05-0	10-25	GHS06-GHS08	H317-320-331-334-335-336
Ethyl-3-ethoxypropionate	763-69-9	2.5-10	GHS02	H226
Ethylbenzene	100-41-4	1.0-2.5	GHS02-GHS07-GHS08	H226-304-315-319-335-351-373
1,2,4 trimethylbenzene	95-63-6	1.0-2.5	GHS02-GHS07	H226-315-319-332-335
Light aromatic solvent naphtha (petroleum)	64742-95-6	1.0-2.5	GHS02-GHS07-GHS08	H226-304-315-319-335-336-351-373

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

Section 4. First Aid Measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures:

Eye Contact	:	Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.
Inhalation	:	Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.
Skin Contact	:	Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.
Ingestion	:	Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone. Do not induce vomiting. Do not give liquids. Obtain emergency medical attention.

Section 5. Firefighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid and vapor. Vapors/dust may cause flash fire or explosion. Vapors can travel to a source of ignition and flash back. 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. Also, do not reuse container without commercial cleaning or reconditioning. Closed container may explode under extreme heat.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Avoid use of solid water streams. Use water with caution. Material will float and may ignite on surface of water. Water may be ineffective in fighting the fire. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause

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Section 5. Fire-Fighting Measures

environmental damage. Dike and collect water used to fight fire. Small fires: carbon dioxide or dry chemical. Large fire: alcohol-type aqueous film-forming foam or water spray.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam

Section 6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Exposure Controls/Personal Protection Section) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Use water mist or spray to disperse vapors. Flush spill area with water spray. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Absorb or pump off as much of the spilled material as possible. Allow the absorbent material to absorb the spill liquid. Shovel the absorbent material into an approved metal container. Do not fill the container more than 2/3 full to allow for expansion and do not tighten the lid on the container. Repeat application of absorbent material until all liquid has been removed from the surface. Recover by pumping (use an explosion proof or hand pump). Clean up spill area with decontaminant solution composed of 5% concentrated ammonia, 2% detergent, and 93% water. Decontaminate the spill area using a neutralization solution. Neutralization solution: mix equal amounts of the following to twice the total estimated spill volume: 1) mineral spirits 80%, VM&P naphtha 15% and household detergent 5% and 2) a 50/50 mixture of monoethanolamine and water. Wait at least 15 minutes after first application of neutralization solution. Cover the area with absorbent material and shovel this into approved metal container. Check for residual surface contamination. Repeat applications of decontamination solution, with scrubbing, followed by absorbent until surface is decontaminated. Apply lid loosely to metal waste container (do not tighten the lid because carbon dioxide and heat can be generated of carbon dioxide. After 72 hours, seal the container and properly dispose of the waste and any contaminated equipment. Cover spill area with suitable absorbent material. Pour decontaminant solution over spill area and allow to react for at least 10 minutes. Collect material in open-head metal container.

Section 7. Handling And Storage

HANDLING: Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Potential peroxide former. If peroxide formation is suspected, do not open or move container. Material accumulates static charge (ignition source). When transferring, follow proper grounding procedures. Use spark-resistant tools. Do not load into compartments adjacent to heated cargo. Use explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. After opening, purge container with nitrogen before reclosing. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

STORAGE: Keep away from heat, sparks, and flame. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep container closed when not in use. Do not allow to evaporate to near dryness. Protect from direct sunlight. Material is a static accumulator which has the potential of forming ignitable vapor-air mixtures in storage tanks.

Section 8. Exposure Controls / Personal Protection

Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Homopolymer of hexamethylene diisocyanate	N.D.	N.D.	N.D.	N.D.
n-Butyl Acetate	150ppm	200ppm	150ppm	N.D.
Xylene	100ppm	150ppm	100ppm	N.D.
Isophorone diisocyanate based polyisocyanate in organic solvent	N.D.	N.D.	N.D.	N.D.
Ethyl-3-ethoxypropionate	N.D.	N.D.	N.D.	N.D.
Ethylbenzene	100ppm	125ppm	100ppm	N.D.
1,2,4 trimethylbenzene	25ppm	N.D.	25ppm	N.D.
Light aromatic solvent naphtha (petroleum)	N.D.	N.D.	N.D.	N.D.

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Section 8. Exposure Controls / Personal Protection

Individual Protection Measures

- RESPIRATORY PROTECTION** : Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provision.
- SKIN PROTECTION** : Wear gloves to prevent contact with the skin. Wear long sleeves when contact is likely to occur. Wear protective gear as needed – apron, suit, boots. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles with a face shield.
- EYE PROTECTION** : Do not wear contact lenses. Use chemical splash goggles and a face shield (ANSI Z87.1 or approved equivalent).
- PROTECTIVE EQUIPMENT** : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
- HYGENIC PRACTICES** : Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

Section 9. Physical and Chemical Properties

Appearance:	N.D.	Physical State:	Liquid
Odor:	Typical	Odor Threshold:	N.D.
Density, g/cm³:	1.014	pH:	N.D.
Freeze Point, °F:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Explosive Limits, vol%:	1.0 - 7.6
Boiling Range, °F:	220-590	Flash Point, °F:	78
Evaporation Rate:	Slower than Diethyl Ether	Auto-Ignition Temp., °F:	N.D.
Vapor Density:	Heavier than air	Vapor Pressure:	N.D.

Section 10. Stability and Reactivity

- CONDITIONS TO AVOID** : Avoid impact, friction, heat, sparks, flame and source of ignition. Do not store near reactive materials. Minimize exposure to air.
- INCOMPATIBILITY** : Avoid contact with moisture and/or water. Avoid contact with metals. Prevent contact with strong oxidizing agents. Keep away from strong bases. Avoid contact with amines. Keep away from acids. Avoid contact with concentrated sulfuric or nitric acid. Avoid contact with alcohols.
- HAZARDOUS DECOMPOSITION PRODUCTS** : Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed. Decomposition releases nitrogen oxides. May form peroxides of unknown stability. Isocyanate-containing vapors are a hazardous decomposition product.
- HAZARDOUS POLYMERIZATION** : Hazardous polymerization may occur. Polymerization may occur with excessive heat or in the absence of inhibitor.

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Section 11. Toxicological Information

EFFECTS OF OVEREXPOSURE – INHALATION: Harmful if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. Breathing in the material may irritate the mucous membranes of the nose, throat, bronchi, and lungs. Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (NCS depression). May cause dizziness and drowsiness. Vapors have a narcotic effect and may cause headache, fatigue/drowsiness, dizziness and nausea. Vapor/aerosol concentrations above recommended exposure levels are irritating to eyes and respiratory tract. May cause headache, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death. Overexposure may cause upper respiratory tract irritation, headaches, cyanosis, blood serum changes, central nervous system damage and narcosis. Conditions aggravated by exposure include asthma and other respiratory disorders (bronchitis, emphysema, hyperreactivity). Certain individuals will develop sensitization (chemical asthma) which will result in reactions at levels below the TLV.

EFFECTS OF OVEREXPOSURE – SKIN CONTACT: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on exposure to this material. Can cause reddening, itching and swelling. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.

EFFECTS OF OVEREXPOSURE – EYE CONTACT: Causes serious irritation to eyes. May cause corneal injury. Symptoms may include stinging, tearing, redness, and swelling.

EFFECTS OF OVEREXPOSURE – INGESTIONS: May be fatal if swallowed and enters airway. Ingestions and/or vomiting may cause aspiration into the lungs resulting in chemical pneumonitis (inflammation of the lungs). Irritating to mouth, throat, and stomach. Ingestion may cause gastrointestinal tract irritation. Ingestion may result in nausea, vomiting, diarrhea and pain. May cause nausea and vomiting. May cause dizziness and drowsiness and/or stupor.

EFFECTS OF OVEREXPOSURE – CHRONIC HAZARDS: Suspect cancer hazard. Possible brain damage from overexposure. The International Agency for Research on Cancer has evaluated ethylbenzene and classified it as possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Overexposure may cause nervous system damage. May cause delayed lung damage. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. Very high exposure (confined spaces/abuse) to light hydrocarbons may result in abnormal heart rhythm. May cause target organ damage. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, central nervous system, kidney, liver, skin, and/or eyes.

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>Name according to EEC</u>	<u>Oral LD50, mg/kg</u>	<u>Dermal LD50, mg/kg</u>	<u>Vapor LC50, mg/L</u>
28182-81-2	Homopolymer of hexamethylene diisocyanate	>2,000	>2,000	>10
123-86-4	n-Butyl Acetate	14,130	>16,000	>20.0
53880-05-0	Isophorone diisocyanate based polyisocyanate in organic solvent	14,000	>5,000	5
763-69-9	Ethyl-3-ethoxypropionate	4309	4080	>20
100-41-4	Ethylbenzene	3500	15433	>20.0
95-63-6	1,2,4 trimethylbenzene	5,000	>5,000	18
64742-95-6	Light aromatic solvent naphtha (petroleum)	3492	>3160	>20

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Section 12. Ecological Information

No ecological information available.

Section 13. Disposal Considerations

Disposal Methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures.

Section 14. Transport Information

DOT Proper Shipping Name:	Paint	Packing Group:	III
DOT Hazard Class:	3	Hazard SubClass:	No information
DOT UN/NA Number	UN1263	Resp. Guide Page:	128

Section 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:

Fire Hazard, Reactive Hazard, Acute Health Hazard, Chronic Health Hazard

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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>
Xylene	1330-20-7
Ethylbenzene	100-41-4
1,2,4 trimethylbenzene	95-63-6
1,6-Hexamethylene Diisocyanate	822-06-0
Cumene	98-82-8

Applicable State Regulations:

California Proposition 65



This product may expose you to chemicals including ethylbenzene and Cumene which are known to the state of California to cause cancer. For more information visit <https://www.p65warnings.ca.gov>

Section 16. Other Information

Revision Date: 2/5/2019 **Supersedes Date:** 12/11/2015
Datasheet produced by: EHS Department

HMIS Ratings:

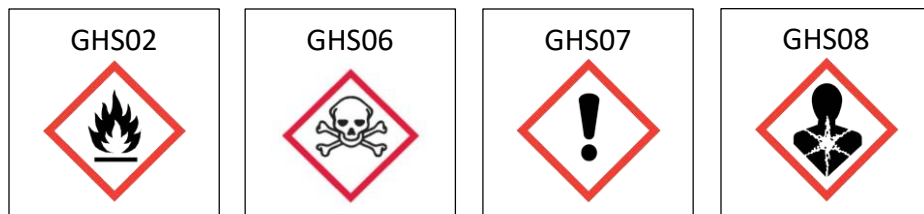
Health:	2	Flammability:	3	Reactivity:	1	Personal Protection:	X
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Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

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GHS Symbols Associated with Ingredient Hazards shown in Section 3:



Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienist
ANSI – American National Standards Institute
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
CFR – Code of Federal Regulations
DOT – Department of Transportation
OSHA – Occupational Safety and Health Administration
IARC – International Agency for Research on Cancer
NA – Not Applicable
ND – Not Determined
NE – Not Established
NI – No Information
NIOSH – National Institute of Occupational Safety and Health
NTP – National Toxicology Program
IATA – International Air Transport Association
IMO – International Maritime Organization;
PEL – Permissible Exposure Limit
STEL – Short Term Exposure Limit
TLV – Threshold Limit Value
TWA – Time Weighted Average
TCC – Tag Closed Cup
VOC – Volatile Organic Content
HAPS – Hazardous Air Polluting Solvents;
mg/m³ – milligrams per cubic meter;
mm – millimeters;
PPM – parts per million;
PPT – parts per thousand;
SARA – Superfund Amendments and Reauthorization Act
STOT – Specific Target Organ Toxicity

The information on this SDS was obtained from sources which we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS may not be applicable. It is the responsibility of the user to comply with all Federal, State, and Local Laws and regulations.