

# 1. Identification of the substance/mixture and of the company/undertaking

2K Urethane Binder **Product name** 

Product code 435-91 Formula date: 2016-04-28

Intended use Coating for professional use

> Axalta Coating Systems, LLC Applied Corporate Center 50 Applied Bank Boulevard, Suite 300

US Glen Mills, PA 19342

Telephone Product information (855) 6-AXALTA

Medical emergency (855) 274-5698

(800) 424-9300 (CHEMTREC) Transportation emergency

# 2. Hazards identification

This preparation is hazardous per the following GHS criteria

### **GHS-Classification**

Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Skin sensitisation Category 1 Toxicity for reproduction Category 2 Target Organ Systemic Toxicant - Single exposure Category 3 Target Organ Systemic Toxicant - Repeated exposure Category 2

Endpoints which are "not classified", "cannot classified" and "not applicable" are not shown.

## **GHS-Labelling**

# Hazard symbols







Signal word: Danger

#### Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

# Precautionary statements

Obtain special instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.



Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

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

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplemental first aid instructions on this label).

If skin irritation or rash occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local regulations.

### Other hazards which do not result in classification

CAC No

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Chamical name

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 0 %

# 3. Composition/information on ingredients

Mixture of synthetic resins and solvents

#### Components

CAS-No.	Chemical name	Concentration
123-86-4	Butyl acetate	4 - 15%
763-69-9	Ethyl 3-ethoxy propionate	4 - 15%
141-78-6	Ethyl acetate	4 - 15%
142-82-5	Heptane	4 - 15%
108-65-6	Propylene glycol monomethyl ether acetate	4 - 15%
108-88-3	Toluene	4%
8032-32-4	Vm&p naphtha	4 - 15%
1330-20-7	Xylene	3%
78-93-3	Methyl ethyl ketone	1 - 4%
108-10-1	Methyl isobutyl ketone	1.6%
100-41-4	Ethylbenzene	0.8%
41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	0.0 - 1.0%
82919-37-7	Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester	0.0 - 1.0%

Concentration

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

435-91 v13.0 en/US



Non-regulated ingredients 40 - 50%

OSHA Hazardous: Yes

\* Assigned CAS No. - An official CAS No. does not exist. The CAS No. shown is for a similar chemical.

# 4. First aid measures

#### Eye contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

### Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

#### Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

### Ingestion

If swallowed, seek medical advice immediately and show this safety data sheet (SDS) or product label. Do NOT induce vomiting. Keep at rest.

### Most Important Symptoms/effects, acute and delayed

#### Inhalation

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activator/hardener (see SDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

### Ingestion

May result in gastrointestinal distress.

#### Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. If this product is mixed with an isocyanate, skin contact may cause sensitization.

# Indication of Immediate medical attention and special treatment needed if necessary

No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

# 5. Firefighting measures

#### Suitable extinguishing media

Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical

## Extinguishing media which shall not be used for safety reasons

High volume water jet

## **Hazardous combustion products**

CO, CO2, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

#### Fire and Explosion Hazards

435-91 v13.0 en/US



Flammable liquid. Vapor/air mixture will burn when an ignition source is present.

### **Special Protective Equipment and Fire Fighting Procedures**

Full protective flameproof clothing should be worn as appropriate. Wear self-contained breathing apparatus for firefighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter public sewer systems or public waterways.

## 6. Accidental release measures

### Procedures for cleaning up spills or leaks

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0 -10% Ammonia, 2-5% Detergent and Water (balance) Pressure can be generated. Do not seal waste containers for 48 hours to allow C02 to vent. After 48 hours, material may be sealed and disposed of properly. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

### **Environmental precautions**

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

# 7. Handling and storage

### Precautions for safe handling

Observe label precautions. Keep away from heat, sparks, flame, static discharge and other sources of ignition. VAPORS MAY CAUSE FLASH FIRE. Close container after each use. Ground containers when pouring. Do not transfer contents to bottles or unlabeled containers. Wash thoroughly after handling and before eating or smoking. Do not store above 49 °C (120 °F). If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves. Combustible dust clouds may be created where operations produce fine material (dust). Avoid formation of significant deposits of material as they may become airborne and form combustible dust clouds. Build up of fine material should be cleaned using gentle sweeping or vacuuming in accordance with best practices. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.

### Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapors may form explosive mixtures with air and will burn when an ignition source is present. Always keep in containers of same material as the original one. Never use pressure to empty container: container is not a pressure vessel. The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards and regular safe removal of waste materials will minimize the risks of spontaneous combustion and other fire hazards.

## Storage

#### Requirements for storage areas and containers

Observe label precautions. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

# Advice on common storage

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

OSHA/NFPA Storage Classification: IB

# 8. Exposure controls/personal protection



### Engineering controls and work practices

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

## National occupational exposure limits

CAS-No.	Chemical name	Source Time	Type	Value	Note
123-86-4	Butyl acetate	ACGIH 15 min	STEL	200 ppm	
		ACGIH 8 hr	TWA	150 ppm	
		OSHA 8 hr	TWA	150 ppm	
141-78-6	Ethyl acetate	ACGIH 8 hr	TWA	400 ppm	
	·	OSHA 8 hr	TWA	400 ppm	
142-82-5	Heptane	ACGIH 15 min	STEL	500 ppm	
	•	ACGIH 8 hr	TWA	400 ppm	
		OSHA 8 hr	TWA	500 ppm	
108-65-6	Propylene glycol monomethyl ether acetate	Dupont 15 min	TWA	30 ppm	
108-88-3	Toluene	OSHA	CEIL	300 ppm	
		OSHA 10 min	TWA	500 ppm	
		OSHA 8 hr	TWA	200 ppm	
		Dupont 8 & 12	TWA	20 ppm	Skin
		hour			
8032-32-4	Vm&p naphtha	ACGIH 8 hr	TWA	300 ppm	
	· · · · · · · · · · · · · · · · · · ·	Dupont 8 hr	TWA	100 ppm	
1330-20-7	Xylene	ACGIH 15 min	STEL	150 ppm	
1330-20-7	Aylerie	ACGIH 15 IIIIII	TWA	100 ppm	
		OSHA 8 hr	TWA		
		Dupont 8 & 12	TWA	100 ppm 100 ppm	
		hour	TVVA	тоо ррпп	
78-93-3	Methyl ethyl ketone	ACGIH 8 hr	TWA	200 ppm	
		OSHA 8 hr	TWA	200 ppm	
		Dupont 8 & 12 hour	TWA	200 ppm	
108-10-1	Methyl isobutyl ketone	ACGIH 15 min	STEL	75 ppm	
100 10 1	Wetry isobaty retorie	ACGIH 8 hr	TWA	20 ppm	
		OSHA 8 hr	TWA	100 ppm	
		OSHA OIII	IVVA	тоо ррпп	
100-41-4	Ethylbenzene	ACGIH 8 hr	TWA	20 ppm	
		OSHA 8 hr	TWA	100 ppm	
		Dupont 8 & 12 hour	TWA	25 ppm	
-	-	nour			
STEL	Short term exposure limit.				
TWA	Time-weighted average.				
CEIL	Ceiling.				
	<del>-</del>				

## Protective equipment

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

# Respiratory protection

Do not breathe vapors or mists. When this product is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product is used without isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions and SDS for further information. Individuals with history of lung or breathing problems or prior reaction to isocyanates

435-91 v13.0 en/US



should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

## Eye protection

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

## Skin and body protection

Neoprene gloves and coveralls are recommended.

## Hygiene measures

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

### **Environmental exposure controls**

Do not let product enter drains.

For ecological information, refer to Ecological Information Section 12.

# 9. Physical and chemical properties

### **Appearance**

Form: liquid Colour: clear Odour: Characteristic Paint Odor

Evaporation rate
Vapor pressure of principal solvent
Water solubility
Vapor density of principal solvent (Air = 1)
Approx. Boiling Range
Approx. Freezing Range
Gallon Weight (lbs/gal)
Specific Gravity

Slower than Ether
14.7 hPa
appreciable
4.6
93 °C
Not applicable.
8.1
0.97

Specific Gravity

Percent Volatile By Volume

Percent Volatile By Weight

Percent Solids By Volume

Percent Solids By Weight

Percent Solids By Weight

42.77%

pH (waterborne systems only)
Partition coefficient: n-octanol/water
No data available
No data available

Ignition temperature 215 °C

Decomposition temperature Not applicable.

Viscosity (23 °C) Not applicable. ISO 2431-1993

VOC\* less exempt (lbs/gal) 4.6 VOC\* as packaged (lbs/gal) 4.6 DIN 51794

# 10. Stability and reactivity

# Stability

Stable

<sup>\*</sup> VOC less exempt (theoretical) and VOC as packaged (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

435-91 v13.0 en/US



### Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

#### Materials to avoid

None reasonably foreseeable.

### Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

### **Hazardous Polymerization**

Will not occur.

### Sensitivity to Static Discharge

Solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

## **Sensitivity to Mechanical Impact**

None known.

# 11. Toxicological information

# Information on likely routes of exposure

#### Inhalation

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activator/hardener (see SDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

## Ingestion

May result in gastrointestinal distress.

# Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

435-91 v13.0 en/US



### Acute oral toxicity

not hazardous

### Acute dermal toxicity

not hazardous

# Acute inhalation toxicity

not hazardous

% of unknown composition: 0 %

# Skin corrosion/irritation

Butyl acetate	Category 3
Ethyl 3-ethoxy propionate	Category 3
Ethyl acetate	Category 3
Heptane	Category 2
Toluene	Category 2
Xylene	Category 2
Methyl ethyl ketone	Category 3
Methyl isobutyl ketone	Category 3

# Serious eye damage/eye irritation

Ethyl acetate	Category 2A
Xylene	Category 2A
Methyl ethyl ketone	Category 2A
Methyl isobutyl ketone	Category 2A

# Respiratory sensitisation

Not classified according to GHS criteria

## Skin sensitisation

Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) seba	cate	Category 1
Decanedioic acid, methyl 1,2,2,6,6-pentamet	hyl-4-piperidinyl ester	Category 1

# Germ cell mutagenicity

Not classified according to GHS criteria

# Carcinogenicity

Not classified according to GHS criteria

# **Toxicity for reproduction**

Toluene Category 2



### Target Organ Systemic Toxicant - Single exposure

Skin Absorption

Narcotic effects Toluene

Inhalation

Respiratory system Propylene glycol monomethyl ether acetate
Central nervous system Vm&p naphtha
reproductive organs Ethyl acetate, Heptane

### Target Organ Systemic Toxicant - Repeated exposure

• Skin Absorption

Body weight effects Ethyl acetate

### **Aspiration toxicity**

Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc. )

No information available.

# Symptoms related to the physical, chemical and toxicological characteristics

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Whether the hazardous chemical is listed by NTP, IARC or OSHA

Methyl isobutyl ketone IARC 2B Ethylbenzene IARC 2B

# 12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

# 13. Disposal considerations



## **Waste Disposal Method**

Do not allow material to contaminate ground water systems. Incinerate or otherwise dispose of waste material in accordance with Federal, State, Provincial, and local requirements. Do not incinerate in closed containers.

# 14. Transport information

## International transport regulations

IMDG (Sea transport)

UN number: 1263 Proper shipping name: PAINT

Hazard Class: 3

Subsidiary Hazard Class: Not applicable.

Packing group:

Marine Pollutant: yes [heptane (mixture of isomers)]

EmS: F-E,S-E

ICAO/IATA (Air transport)

UN number: 1263 Proper shipping name: PAINT

Hazard Class: 3

Subsidiary Hazard Class: Not applicable.

Packing group:

DOT

UN number: 1263 Proper shipping name: PAINT

Hazard Class:

Subsidiary Hazard Class: Not applicable.

Packing group:

Marine Pollutant: yes [heptane (mixture of isomers)]

The transport information is for bulk shipments. Exceptions may apply for smaller containers.

### Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

# 15. Regulatory information

### **TSCA Status**

In compliance with TSCA Inventory requirements for commercial purposes.

### **DSL Status**

All components of the mixture are listed on the DSL.



# **Photochemical Reactivity**

Non-photochemically reactive

# US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

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

# **Regulatory information**

		EPCRA			CERCLA	CAA		
CAS#	Ingredient	302	TPQ	RQ	311/312	313	RQ(lbs)	HAP
123-86-4	Butyl acetate	N	NR	NR	A,C,F	N	NR	N
763-69-9	Ethyl 3-ethoxy propionate	Ν	NR	NR	NA	Ν	NR	Ν
141-78-6	Ethyl acetate	Ν	NR	NR	C,F	Ν	NR	Ν
142-82-5	Heptane	Ν	NR	NR	A,C,F	Ν	NR	N
108-65-6	Propylene glycol	Ν	NR	NR	F	Ν	NR	Ν
	monomethyl ether ac-							
	etate							
108-88-3	Toluene	Ν	NR	NR	A,C,F,N,P,R	Υ	1,000	Υ
8032-32-4	Vm&p naphtha	Ν	NR	NR	A,C,F	Ν	NR	Ν
1330-20-7	Xylene	Ν	NR	NR	A,C,F,N,P,R	Υ	100	Υ
78-93-3	Methyl ethyl ketone	Ν	NR	NR	A,C,F	Ν	5,000	N
108-10-1	Methyl isobutyl ketone	Ν	NR	NR	A,C,F,N,P,R	Υ	5,000	Υ
100-41-4	Ethylbenzene	Ν	NR	NR	A,C,F	Υ	1,000	Υ
41556-26-7	Bis(1,2,2,6,6-pentamethyl-	Ν	NR	NR	A,C,F,N,P,R	Ν	NR	Ν
	4-piperidinyl) sebacate							
82919-37-7	Decanedioic acid, methyl	Ν	NR	NR	A,C,F,N,P,R	Ν	NR	Ν
	1,2,2,6,6-pentamethyl-4-							
	piperidinyl ester							

# Key:

EPCRA	Emergency Planning and Community Right-to-know Act (aka Title III, SARA)		
302	Extremely hazardous substances		
311/312 Categories	F = Fire Hazard R = Reactivity Hazard P = Pressure Related Hazard	A = Acute Hazard C = Chronic Hazard	
313 Information	Section 313 Supplier Notification - The chemicals listed above with a 'Y' in the 313 column are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know act of 1986 and of 40 CFR 372.		
CERCLA HAP TPQ RQ NA NR	Comprehensive Emergency Response, Compensation and Liability Act of 1980 Listed as a Clean Air Act Hazardous Air Pollutant. Threshold Planning Quantity. Reportable Quantity not available not regulated		



## 16. Other information

HMIS rating H: 2 F: 3 R: 1

### Glossary of Terms:

ACGIH | American Conference of Governmental Industrial Hygienists.

IARC International Agency for Research on Cancer.

NTP National Toxicology Program.
OEL Occupational Exposure Limit

OSHA Occupational Safety and Health Administration.

STEL Short term exposure limit. TWA Time-weighted average.

PNOR Particles not otherwise regulated.
PNOC Particles not otherwise classified.

NOTE: The list (above) of glossary terms may be modified.

## Notice from Axalta Coating Systems:

The document reflects information provided to Axalta Coating Systems by its suppliers. Information is accurate to the best of our knowledge and is subject to change as new data is received by Axalta Coating Systems. Persons receiving this information should make their own determination as to its suitability for their purposes prior to use.

The information on this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SDS prepared by: Axalta Coating Systems Regulatory Affairs

Report version

Version Changes
13.0 2, 3, 4, 5, 6, 7, 8, 9, 11, 14, 15, 16

Revision Date: 2016-07-14

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