

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

Product name 2K Activator (Mid-Temp)

Product code 483-87 Formula Date: 2015-10-01

Intended use Hardener 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

Transportation emergency (800) 424-9300 (CHEMTREC)

2. Hazards identification

This preparation is hazardous per the following GHS criteria

GHS-Classification

Category 2 Flammable liquids Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Respiratory sensitisation Category 1 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 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of damaging fertility or the unborn child.

Highly flammable liquid and vapour. May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May cause an allergic skin reaction.

Causes skin irritation. Causes serious eye irritation.

Precautionary statements In case of inadequate ventilation wear respiratory protection.

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.

Use only outdoors or in a well-ventilated area.



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

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

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

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

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 ON SKIN: Wash with plenty of soap and water.

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

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

Take off contaminated clothing and wash before reuse.

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 advice/ attention.

Store locked up.

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

Dispose of contents/container in accordance with local regulations.

Other hazards which do not result in classification

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

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 |
|------------|--------------------------------|---------------|
| 28182-81-2 | Aliphatic polyisocyanate resin | 26 - 37% |
| 1330-20-7 | Xylene | 24% |
| 141-78-6 | Ethyl acetate | 15 - 26% |
| 108-88-3 | Toluene | 7% |
| 100-41-4 | Ethylbenzene | 6.1% |
| 123-86-4 | Butyl acetate | 1 - 4% |
| 78-93-3 | Methyl ethyl ketone | 1 - 4% |
| 4083-64-1 | P-toluenesulfonyl isocyanate | 0.0 - 1.0% |

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

Non-regulated ingredients 1 - 5% OSHA Hazardous: Yes

4. First aid measures

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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 container or 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. 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. Skin contact my cause skin 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

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 fire fighting 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. Do not breathe vapors. Do not get in eyes or on skin. 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 TM 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance) Confine and remove with inert absorbent. 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.

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, strongly alkaline and strongly acidic materials, amines, alcohols and water. Precautions should be taken to avoid exposure to atmospheric humidity or water. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

Additional information on storage conditions

Precautions should be taken to avoid exposure to atmospheric humidity or water. Humid air and/or water will produce carbon dioxide which will pressurize the container. Open drum carefully as content may be under pressure.

OSHA/NFPA Storage Classification: IB

8. Exposure controls/personal protection

Engineering controls and work practices

Provide adequate ventilation. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided.

National occupational exposure limits

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| CAS-No. | Chemical Name | Source | Time | Туре | Value | Note |
|-----------|---------------------|--------|----------------|------|---------|------|
| 1330-20-7 | Xylene | ACGIH | 15 min | STEL | 150 ppm | |
| | | | 8 hr | TWA | 100 ppm | |
| | | OSHA | 8 hr | TWA | 100 ppm | |
| | | Dupont | 8 & 12 hour | TWA | 100 ppm | |
| 141-78-6 | Ethyl acetate | ACGIH | 8 hr | TWA | 400 ppm | |
| | | OSHA | 8 hr | TWA | 400 ppm | |
| 108-88-3 | Toluene | OSHA | | CEIL | 300 ppm | |
| | | | 10 min | TWA | 500 ppm | |
| | | | 8 hr | TWA | 200 ppm | |
| | | Dupont | 8 & 12 hour | TWA | 20 ppm | Skin |
| 100-41-4 | Ethylbenzene | ACGIH | 8 hr | TWA | 20 ppm | |
| | | OSHA | 8 hr | TWA | 100 ppm | |
| | | Dupont | 8 & 12 hour | TWA | 25 ppm | |
| 123-86-4 | Butyl acetate | ACGIH | 15 min | STEL | 200 ppm | |
| | | | 8 hr | TWA | 150 ppm | |
| | | OSHA | 8 hr | TWA | 150 ppm | |
| 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 | |

^{**} STEL = Short term exposure limit.

TWA = Time-weighted average.

CEIL = Ceiling.

Protective equipment

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

Respiratory protection

Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturers directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions for further information. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to vapor or spray mist.

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.

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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

Flash point 37 °F Lower Explosive Limit 1 % Upper Explosive Limit 11.4 % Evapouration rate Slower

Evapouration rate
Vapor pressure of principal solvent
Water solubility
Vapor density of principal solvent (Air = 1)

3.7

Vapor density of principal solvent (Air = 1)

Approx. Boiling Range

Approx. Freezing Range

Gallon Weight (lbs/gal)

Not applicable.

8.01

Specific Gravity
Percent Volatile By Volume
Percent Volatile By Weight
Percent Solids By Volume
Percent Solids By Weight
Percent Solids By Weight
PH (waterborne systems only)
Partition coefficient: n-octanol/water

0.96
71.74%
65.57%
28.26%
34.43%
not applicable
no data available

Ignition temperature 404 °C DIN 51794

Decomposition temperature Not applicable.

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

VOC* less exempt (lbs/gal) 5.3 VOC* as packaged (lbs/gal) 5.3

10. Stability and reactivity

Stability

Stable

Conditions to avoid

Stable under recommended storage conditions.

Materials to avoid

Keep away from oxidising agents and strongly acid or alkaline materials. Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen as well as hydrogen cyanide, amines, alcohols and water.

^{*} VOC less exempt (theoretical) and VOC as packaged (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

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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. 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:

Acute oral toxicity

not hazardous

Acute dermal toxicity

not hazardous

Acute inhalation toxicity

Not classified according to GHS criteria

% of unknown composition 0 %

Skin corrosion/irritation

| Xylene | Category 2 |
|------------------------------|------------|
| Ethyl acetate | Category 3 |
| Toluene | Category 2 |
| Butyl acetate | Category 3 |
| Methyl ethyl ketone | Category 3 |
| P-toluenesulfonyl isocyanate | Category 2 |

Serious eye damage/eye irritation

Xylene Category 2A Ethyl acetate Category 2A 483-87 v7.3 en/US



Methyl ethyl ketone Category 2A P-toluenesulfonyl isocyanate Category 2A

Respiratory sensitisation

P-toluenesulfonyl isocyanate Category 1

Skin sensitisation

Aliphatic polyisocyanate resin 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 P-toluenesulfonyl isocyanate **reproductive organs** Ethyl acetate

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

Based on the properties of the isocyanate components and considering toxicological data on similar products, the following applies: This formulation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. 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. Components of the product may be absorbed into the body through the skin.



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

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 RELATED MATERIAL

Hazard Class: 3

Subsidiary Hazard Class: Not applicable.

Packing group: II Marine Pollutant: no

ICAO/IATA (Air transport)

UN number: 1263

Proper shipping name: PAINT RELATED MATERIAL

Hazard Class:

Subsidiary Hazard Class: Not applicable.

Packing group:

DOT

UN number: 1263

Proper shipping name: PAINT RELATED MATERIAL

Hazard Class: 3

Subsidiary Hazard Class: Not applicable.

Packing group: II
Marine Pollutant: no
EmS: F-E,S-E

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

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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

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 |
| 28182-81-2 | Aliphatic polyisocyanate | N | NR | NR | A,C,R | N | NR | N |
| | resin | | | | | | | |
| 1330-20-7 | Xylene | Ν | NR | NR | A,C,F | Υ | 100 | Υ |
| 141-78-6 | Ethyl acetate | | NR | NR | C,F | Ν | NR | Ν |
| 108-88-3 | Toluene | Ν | NR | NR | A,C,F | Υ | 1,000 | Υ |
| 100-41-4 | Ethylbenzene | Ν | NR | NR | A,C,F | Υ | 1,000 | Υ |
| 123-86-4 | Butyl acetate | Ν | NR | NR | A,C,F | Ν | NR | Ν |
| 78-93-3 | Methyl ethyl ketone | Ν | NR | NR | A,C,F | Ν | 5,000 | Ν |
| 4083-64-1 | P-toluenesulfonyl iso- cyanate | N | NR | NR | A,C,R | N | NR | N |

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: 3 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 |

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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

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