

SAFETY DATA SHEET

Section 1. Identification			
Product identifier	: 483-15		
Product name	: Ful-Thane 2K 2K Urethane Activator		
Other means of identification	: 1250001743; 1250001744; 1250064682		
Date of issue	: 7/25/2023		
Version	: 14		
Relevant identified uses of the substance or mixture and uses advised against			
Identified uses	: Coating component.		
Uses advised against	: Not for sale to or use by consumers.		
Supplier's details	: Axalta Coating Systems Canada Company 1915 2nd St. W Cornwall, ON K6H5R6		
Product information	: 613-932-8960		
Emergency telephone number	: (CHEMTREC) - 800-424-9300		

Section 2. Hazard identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 4 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: H227 - Combustible liquid. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.
Precautionary statements	
Prevention	 P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing vapor. P272 - Contaminated work clothing should not be allowed out of the workplace.

Section 2. Hazard identification

Response	 P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
Storage	 P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: None known.

Other hazards which do not	:	None known.
result in classification		

Section 3. Composition/information on ingredients

Substance/mixture : Mixture			
Chemical name	Common name and Synonyms	CAS number	% (w/w)
Hexamethylene diisocyanate, oligomers	ALIPHATIC POLYISOCYANATE RESIN	28182-81-2	≥80
n-butyl acetate	butyl acetate	123-86-4	≥5 - ≤10
solvent naphtha (petroleum), light aromatic	AROMATIC HYDROCARBON	64742-95-6	≥1 - ≤5
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	95-63-6	≥1 - ≤5

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First-aid measures

Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

 Specific treatments Protection of first-aiders The exposed person may need to be kept under medical surveillance for 48 hou No specific treatment. No action shall be taken involving any personal risk or without suitable training. Is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person 			
Inhalation: May cause respiratory irritation.Skin contact: May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.Over-exposure signs/symptomsEye contact: No specific data.Inhalation: Adverse symptoms may include the following: respiratory tract irritation coughingSkin contact: Adverse symptoms may include the following: respiratory tract irritation rednessIngestion: Adverse symptoms may include the following: respiratory tract irritation rednessIngestion: Adverse symptoms may include the following: irritation rednessIngestion: No specific data.Indication of immediate medical attention and special treatment needed. if necessary The exposed person may need to be kept under medical surveillance for 48 hou Specific treatmentsProtection of first-aiders: No action shall be taken involving any personal risk or without suitable training. is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person	Potential acute health effec	<u>ts</u>	
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thoroughly with water before removing it, or wear gloves.	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for

Section 6. Accidental release measures

emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	3	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Storage code	:	IIIA

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Hexamethylene diisocyanate, oligomers	CA Quebec Provincial (Canada, 6/2022). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer.
n-butyl acetate	 CA Alberta Provincial (Canada, 6/2018). 15 min OEL: 200 ppm 15 minutes. 15 min OEL: 950 mg/m³ 15 minutes. 8 hrs OEL: 150 ppm 8 hours. 8 hrs OEL: 713 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [butyl acetates, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022).

		[butyl acetate, all isomers]
		STEL: 150 ppm 15 minutes.
		TWA: 50 ppm 8 hours.
		CA Quebec Provincial (Canada, 6/2022). [butyl
		acetates (all isomers)]
		STEV: 150 ppm 15 minutes.
		TWAEV: 50 ppm 8 hours.
1,2,4-trimethylbenzene		CA Alberta Provincial (Canada, 6/2018). [Trimethyl
		benzene (mixed isomers)]
		8 hrs OEL: 123 mg/m ³ 8 hours. 8 hrs OEL: 25 ppm 8 hours.
		CA British Columbia Provincial (Canada, 6/2022).
		[Trimethyl benzene (mixed isomers)]
		TWA: 25 ppm 8 hours.
		CA Quebec Provincial (Canada, 6/2022). [Trimethy]
		benzene (mixture of isomers)] Skin sensitizer.
		Inhalation sensitizer.
		TWAEV: 25 ppm 8 hours.
		CA Ontario Provincial (Canada, 6/2019). [Trimethyl
		benzene (mixed isomers)]
		TWA: 25 ppm 8 hours.
		CA Saskatchewan Provincial (Canada, 7/2013).
		[Trimethyl benzene mixed isomer]
		STEL: 30 ppm 15 minutes.
		TWA: 25 ppm 8 hours.
ppropriate engineering ontrols	ventilation or other engine contaminants below any r	rentilation. Use process enclosures, local exhaust eering controls to keep worker exposure to airborne recommended or statutory limits. The engineering contro apor or dust concentrations below any lower explosive of ventilation equipment
nvironmontal avnoauro		
nvironmental exposure ontrols	they comply with the requ cases, fume scrubbers, fi	n or work process equipment should be checked to ensur uirements of environmental protection legislation. In some ilters or engineering modifications to the process eary to reduce emissions to acceptable levels.
ndividual protection measu		
Hygiene measures		nd face thoroughly after handling chemical products, befo
		g the lavatory and at the end of the working period. hould be used to remove potentially contaminated clothin
	Contaminated work clothi	ing should not be allowed out of the workplace. Wash fore reusing. Ensure that eyewash stations and safety workstation location.
Eye/face protection	Contaminated work clothi contaminated clothing be showers are close to the	fore reusing. Ensure that eyewash stations and safety

Skin protection

Section 8. Exposure controls/personal protection

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Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Madia		Booult
Solubility(ies)	:	
Relative density	:	Not available.
Vapor density	:	Not available.
Vapor pressure	:	0.11 kPa (0.8 mm Hg)
Lower and upper explosive (flammable) limits	:	Not available.
Flammability (solid, gas)		Not available.
Evaporation rate		Not available.
Flash point		Closed cup: 65°C (149°F)
Freezing point		Not available.
Boiling point	:	203 to 203°C (397.4 to 397.4°F)
Melting point	:	Not applicable.
рН	:	Not applicable.
Odor threshold	:	Not available.
Odor	:	Not available.
Color	:	Clear.
Physical state	:	Liquid.
Appearance		

Media	Result
cold water	Very slightly soluble

Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	280°C (536°F)
Decomposition temperature	:	Not applicable.
Viscosity	:	Not available.

Section 9. Physical and chemical properties

Flow time (ISO 2431)

: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers	LC50 Inhalation Dusts and mists	Rat	18500 mg/m³	1 hours
n-butyl acetate	LC50 Inhalation Vapor	Rat	21.1 mg/l	4 hours
,	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3492 mg/kg	-
5	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor LD50 Oral	Rat Rat	18000 mg/m³ 5 g/kg	4 hours -

Irritation/Corrosion

Not available.

Sensitization

Product/ingredient name	Route of exposure	Species	Result	
Hexamethylene diisocyanate, oligomers	skin	Mouse	Sensitizing	

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects
solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
solvent naphtha (petroleum), light aromatic 1,2,4-trimethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.		
Potential acute health effects	<u>i</u>			
Eye contact	:	No known significant effects or critical hazards.		
Inhalation	:	May cause respiratory irritation.		
Skin contact	:	May cause an allergic skin reaction.		
Ingestion	:	No known significant effects or critical hazards.		
Symptoms related to the phy	sic	al, chemical and toxicological characteristics		
Eye contact	:	No specific data.		
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing		
Skin contact	:	Adverse symptoms may include the following: irritation redness		
Ingestion	:	No specific data.		
Delayed and immediate effec	<u>ts</u>	and also chronic effects from short and long term exposure		
<u>Short term exposure</u>				
Potential immediate effects	:	Not available.		
Potential delayed effects	:	Not available.		
Long term exposure				
Potential immediate effects	:	Not available.		
Potential delayed effects	:	Not available.		
Potential chronic health effe	Potential chronic health effects			
Not available				

Not available.

Section 11. Toxicological information

		-
General	 Once sensitized, a severe allergic reaction may occur when subsequently ex to very low levels. 	
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value	
Oral	333333.33 mg/kg	
Dermal	101526.38 mg/kg	
Inhalation (vapors)	1200 mg/l	
Inhalation (dusts and mists)	5.15 mg/l	

Section 12. Ecological information

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

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.

Section 14. Transport information

	TDG Classification	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	UN1263	Not regulated.	Not regulated.
UN proper shipping name	-	PAINT RELATED MATERIAL	-	-

Section 14. Transport information					
Transport hazard class(es)	-		Combustible liquid.	-	-
Packing group	-			-	-
Environmental hazards	No.		No.	No.	No.
Additional informa DOT Classificatio			ulk packages (less than o ed as hazardous materia		l) of combustible liquids are not
Special precaution	s for user	upright		persons transpo	sport in closed containers that are rting the product know what to do in
Transport in bulk a	ccording	: Not ava	ailable.		

to IMO instruments

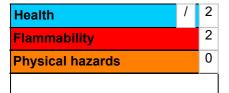
The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

Section 15. Regulatory information

Canadian lists	
Canadian NPRI	 The following components are listed: butyl acetate (all isomers); light aromatic solvent naphtha; 1,2,4-trimethylbenzene
CEPA Toxic substances	: None of the components are listed.
Inventory list	
Canada	: All components are listed or exempted.
United States	: All components are listed or exempted.
Section 16 Other	information

Section 16. Other information

Hazardous Material Information System (U.S.A.)

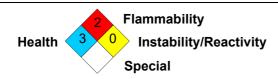


Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Section 16. Other information



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	Product stewardship and regulatory compliance.
Key to abbreviations	 ATE = Acute Toxicity Estimate GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations HPR = Hazardous Products Regulations

Indicates information that has changed from previously issued version.

Notice to reader

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