Safety Data Sheet

PRO-COAT UNOCOAT ACTIVATOR™

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer	Professional Coatings, Inc., 100 Commerce Park Dr. Cabot, AR 72023
Telephone	(501) 843-7509 **Fax** (501) 843-9261
Product Names	Pro-Coat Unocoat Activator Part B
Recommended Use	Floor coating
Restrictions on Use	For Industrial/Commercial use only
Emergency Contact / Number	Chemtrec / (800) 424-9300 (US and Canada) / (703) 527- 3887 (outside US and Canada)

SECTION 2: HAZARD IDENTIFICATION

Hazards

Skin corrosion/irritation	Category 1 – May cause allergic skin reaction
Acute toxicity	Category 4 – Harmful if inhaled
Respiratory sensitization difficulties if inhaled	Category 1 – May cause allergy or asthma symptoms or breathing
Specific target organ toxicity -single exposure	Category 3 – May cause respiratory irritation

Signal Word DANGER

Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. CAUTION! HARMFUL IF INHALED. MAY CAUSE SKIN, EYE AND RESPIRATORY TRACT IRRITATION. POSSIBLE SENSITIZER. REACTS WITH COMMON MATERIALS INCLUDING WATER, ALCOHOLS, BASES AND AMINES RELEASING LARGE AMOUNTS OF CARBON DIOXIDE.

Storage and Disposal

Store in a well ventilated area. Keep container tightly closed and locked up. Dispose of contents and container to an approved waste disposal facility in accordance with applicable laws and regulation and product characteristics at time of disposal.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#	Component Percent
Hexamethylene diisocyanate oligomers, Isocyanurate	28182-81-2 EC number: 931-274-8	100
Hexamethylene-di-isocyanate	CAS: 822-06-0 EINECS: 212-485-8	<0.5

SECTION 4: FIRST AID MEASURES

General information:
Immediately remove any clothing soiled by the product. Use appropriate protective equipment when treating a contaminated person. Place contaminated clothing in a sealed bag for disposal. In case of irregular breathing or respiratory arrest provide artificial respiration.

Eye Contact: Immediately rinse with plenty of running water for a prolonged period, (at least 15 minutes) while keeping the eyes wide open. If irritation persists, consult a doctor. Show this sheet to the doctor.

Skin Contact: Wash with soap and water. Wash immediately and thoroughly for a prolonged period (at least 15 minutes). In case of inflammation (redness, irritation, ...) obtain medical attention. Place contaminated clothing in a sealed bag for disposal.

Ingestion: NEVER attempt to induce vomiting. Rinse mouth out with water. Do not give anything to drink. If necessary seek medical advice. Show this sheet to the doctor.

Inhalation: Move the person away from the contaminated area. Fresh air and rest. Seek immediate medical advice. Show this sheet to the doctor.

Most Important Symptoms / Effects

No further relevant information available.

Danger

Skin contact may aggravate existing skin disease. Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

Indication of Immediate Medical Attention and Special Treatment, If Necessary

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available.

SECTION 5: FIREFIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media

Foam, Powders, Carbon dioxide, or Dry chemical. Do not use Water.

Specific Hazards Arising from the Chemical

Combustible. During combustion toxic vapors are released. Under fire conditions, corrosive fumes are emitted: oxides of nitrogen oxides of carbon. Reacts with water releasing large amounts of carbon dioxide which may cause pressure build-up in confined spaces..

Specific Protective Equipment and Precautions for Fire-Fighters

NIOSH/MSHA -approved self-contained breathing apparatus and full protective clothing.

Additional information

Stay upwind. Evacuate the personnel away from the fumes. In case of fire close by: Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product. Do not breathe fumes. Do NOT attempt to fight the fire without suitable protective equipment. If there is a fire close by and if packaging has not been damaged: Use suitable extinguishers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with the eyes and skin. Do not breathe gas. Do NOT approach from DOWNWIND. Do NOT attempt to take action WITHOUT suitable protective equipment. Wear a Self-contained breathing apparatus and fully protective suit. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Keep people at a distance and stay upwind.

Environmental Precautions

Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers or waterways. Advise EPA, state or local agencies as required.

Methods for Cleaning Up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Pump up the product into a spare container suitably labelled. Wash contaminated area with large amounts of water. Recover the cleaning water for subsequent disposal. Dispose contaminated material as waste according to item 13. Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

SECTION 7: HANDLING AND STORAGE

Handling and Storage

Ensure good ventilation/aspiration at the workplace. Avoid contact with water or humidity. Avoid any direct contact with the product. Any measure to eliminate exposure should be considered. Very high level of containment required, except for short term exposures e.g. taking samples (industrial use condition). Comply with instructions for use (refer to technical sheet).
Store only in original or compatible, clearly labeled container. Store in cool, dry conditions in well-sealed receptacles. Store receptacle in a well ventilated area. Store away from incompatible materials. The floor of the depot should be impermeable and designed to form a water-tight basin.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits

Component Name	ACGIH	OSHA
Diethylene glycol monobutyl ether	10 ppm (TWA)	Not Established

Engineering Controls

Use appropriate ventilation to maintain airborne concentration limits below exposure limits. Store protective clothing separately.

Eye and Face Protection

Wear safety glasses or chemical safety goggles; use face shield if splashing is possible e.g. when working with large amounts.

Skin Protection

Wear protective gloves to avoid repeated or prolonged contact.

Respiratory Protection

When using a spray-gun, wear: Self-contained breathing apparatus. In the event of insufficient ventilation: Self-contained breathing apparatus. When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

General Hygiene

Ensure good ventilation of the work station. Store protective clothing separately. Keep away from foodstuffs, Beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Shower or take a bath at the end of work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State	Colorless to pay yellow liquid	**Flash Point (PMCC)**	> 160 °C (> 320 °F)
Specific Gravity (Water=1)	1.04 (8.66 lbs/gal)	**Upper Flammability Limits**	Not Determined
Evaporation Rate (ether = 1)	<1	**Lower Flammability Limits**	Not Determined
pH	Not Applicable (reacts w/water)	**Auto-ignition Temperature**	Not Determined
Solubility in Water	Reacts	**Decomposition Temperature**	Not Determined
Odor	None	**Vapor Pressure**	Not Determined
Odor Threshold	Not Determined	**Vapor Density (Air-=1)**	>1
Melting/Freezing Point	< -20 °C (< -4 °F)	**Partition Coefficient (n-octanol/water)**	Not Applicable (reacts w/water)
Boiling Range	> 150 °C (> 302 °F)	**Viscosity Dynamic at 25 °C (77 °F):**	600 mPas
Initial Boiling Point	Not Determined	**Critical Temperature**	Not Determined
Note: Physical and chemical properties are provided for safety, health and environmental considerations and do not fully represent product specifications. Those should be requested separately.			

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive at normal storage and use conditions
Chemical Stability: Stable at normal storage and use conditions
Possibility of Hazardous Reactions: Reacts with water and aqueous solutions, alcohols, amines, bases, and protic solvents. With a great release of CO2, and hence a risk of a pressure build-up in confined areas, and forms an insoluble solid precipitate. Reacts with strong acids. Reacts with strong oxidizing agents
Conditions to Avoid: extreme heat, open flame, moisture and ignition sources.
Incompatible Materials: No further relevant information available.
Hazardous Decomposition Products: On thermal decomposition (pyrolysis) releases Toxic gases, Carbon dioxide, Nitrogen oxides and Oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Effects

Harmful by inhalation. To comply with regulatory guidelines, the substance was tested in a form (i.e. specific particle size distribution) that is different from the form in which the substance is placed on the market and in which it can reasonably be expected to be used. The acute inhalation toxicity of the substance is due to its local action on the distal part of the respiratory tract. As, in the conditions in which the product can reasonably be expected to be used, only a small fraction of the aerosols formed may reach this part of the respiratory tract, a correction has been made to take this difference into consideration. Based on our Expert judgment, the classification Acute inhalation toxicity category 4 is justified. Not harmful by skin contact. Not harmful if swallowed.

Chronic Toxicity Effects

Long term or repeated exposure may aggravate any acute symptoms.

Carcinogenicity

NTP, OSHA and IARC have not identified any carcinogenic ingredients above the statutory limit.

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate		
Oral	LD0	> 2500 mg/kg (rat) (OECD 423 (female))
Dermal	LD0	> 2000 mg/kg (rabbit) (OECD 402)
		> 2000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4h	0.390 mg/l (rat) (OECD 403 (female))
822-06-0 hexamethylene-di-isocyanate		
Oral	LD50	746 mg/kg (rat) (OECD 401)
Dermal	LD50	> 7000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4h	0.124 mg/l (rat) (OECD 403)
28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate		
Inhalative	NOAEC/6h	3 mg/m³ (rat) ((OECD TG 403) (TRGS))
822-06-0 hexamethylene-di-isocyanate		
Inhalative	NOAEC Carc	0.164 ppm (rat) (OECD 453)
822-06-0 hexamethylene-di-isocyanate		
Inhalative	NOAEC Dvlp/Tera Tox	0.3 ppm (rat) (OECD 414)
	NOAEC Maternal Tox	0.005 ppm (rat) (OECD 414)
	NOEC Fert	0.3 ppm (rat) (OECD 422)

SECTION 12: ECOLOGICAL INFORMATION

· **Toxicity**

· **Aquatic toxicity:**

The product does not have any known adverse effects on the aquatic organisms tested.

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate	
EC10/72h (static)	370 mg/l (Desmodesmus subspicatus) (EU C.3)
EL50/48h (static)	127 mg/l (Daphnia magna) (EU C.2)
ErC50(0-72h) (static)	> 1000 mg/l (Desmodesmus subspicatus) (EU C.3)
LL0/96h	≥ 82.8 mg/l (Brachydanio rerio) (EU C.1)
822-06-0 hexamethylene-di-isocyanate	
EC0/48h (static)	≥ 89.1 mg/l (Daphnia magna) (EU C.2)
ErC50(0-72h) (static)	> 77.4 mg/l (Desmodesmus subspicatus) (EU C.3)
LC0/96h (static)	≥ 82.8 mg/l (Brachydanio rerio) (EU C.1)
NOEC/72h (static)	11.7 mg/l (Desmodesmus subspicatus) (EU C.3)
28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate	
BOD28	1 % (bacteria) ((EU C.4-E) (Unpublished report))
DT50	3 h (Photolysis) ((25 °C) (AOPWIN v1.92) (Internal evaluation))
	7.7 h (Hydrolysis) ((23 °C) (ASTM D4666) (Internal evaluation))
822-06-0 hexamethylene-di-isocyanate	
BOD28	42 % (bacteria) (EU C.4-D)
DT50	25 °C, 48.44 h (Photolysis) (AOPWIN v1.92)
	23 °C, 0.23 h (Hydrolysis) (ASTM D4666)
28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate	
BCF	3.2 (fish) (BCFWIN v. 2.17)
822-06-0 hexamethylene-di-isocyanate	
BCF	58 (fish) (BCFWIN v.2.17)
28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate	
Log Koc	7.8 (.) (PCKOC v1.66)
822-06-0 hexamethylene-di-isocyanate	
Log Koc	5861 (.) (PCKOC v1.66)
28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate	
EC50/3h (static)	3828 mg/l (activated sludge) (OECD 209)
822-06-0 hexamethylene-di-isocyanate	
EC50/3h (static)	842 mg/l (bacteria) (OECD 209)

SECTION 13: DISPOSAL CONSIDERATIONS

Avoid release to the environment. Dispose of in accordance with local, state/province, and federal environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Information Not Regulated

SECTION 15: REGULATORY INFORMATION

TSCA Status	All components are listed in the TSCA inventory
SARA 311/312 Reporting Categories	None
SARA 313 Reportable Ingredients	CERCLA RQ 100 lbs for 822-06-0 822-06-0 hexamethylene-di-isocyanate

SECTION 16: OTHER INFORMATION

Department Issuing SDS Health and Safety

Disclaimer

Important Notice to Purchaser. The information in this publication is based on tests that we believe are reliable. Your results may vary due to differences in test types and conditions. You must evaluate and determine whether the product is suitable for your intended application. **Professional Coatings, Inc.'s** exclusive warranty is as follows: If **Pro-Coat** products are proved defective, the user's exclusive remedy will be, at **Pro-Coat's** option, to replace the defective **Pro-Coat** product or to refund the purchase price for the defective quantity. Except for the replacement or refund remedies, **Pro-Coat** is not liable for direct damages or liable for indirect, incidental or consequential damages, regardless of the legal theory asserted, including negligence and strict liability.

ADDITIONAL COMMENTS

We recommend that containers be either professionally reconditioned for reuse by certified firms or properly disposed of by certified firms to help reduce the possibility of an accident. Disposal of containers should be in accordance with applicable federal, state and local laws and regulations. "EMPTY" drums should not be given to individuals. The conditions of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.