### Safety Data Sheet PERFECTION CURING AGENT

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Bulk Sales Reference No.: SDS Revision Date: SDS Revision Number: YGB001 08/06/2021 E1-5

1. Identification of the preparation and company		
1.1. Product identifier		
Product Identity	PERFECTION CURING AGENT	
Bulk Sales Reference No.	YGB001	
1.2. Relevant identified uses of the substan	nce or mixture and uses advised against	
Intended Use	See Technical Data Sheet.	
1.3. Details of the supplier of the safety da	ta sheet	
Company Name	Akzo Nobel Coatings	
	Manufacturer: Akzo Nobel Coatings International Paint	
	6001 Antoine Drive	
	Houston, Texas 77091	
Emergency		
CHEMTREC	(800) 424-9300	
International Paint	(713) 527-3887	
Poison Control Center	(800) 854-6813	
Customer Service	. ,	
International Paint	(800) 589-1267	
Fax No.	(800) 631-7481	
2. Haz	ard identification of the product	

2.1. Classification of the substance or mixture

Flam. Liq. 3;H226	Flammable liquid and vapor.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Aquatic Chronic 3;H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.



H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking. P235 Keep cool.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash area of contact thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P302+352 IF ON SKIN: Wash with soap and water.

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P333+313 If skin irritation or a rash occurs: Get medical advice/attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370 In case of fire: Use water spray, fog, or regular foam..

P403+233 Store in a well ventilated place. Keep container tightly closed.

P501 Dispose of contents / container in accordance with local / national regulations.

HMIS Rating	Health: Unknown	Flammability: Unknown	Reactivity: Unknown
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3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
HDI Homopolymer CAS Number: 0028182-81-2	50 - 75	Skin Sens. 1;H317	[1]
2-Methoxy-1-Methylethyl Acetate CAS Number: 0000108-65-6	10 - 25	Flam. Liq. 3;H226	[1]
Xylene CAS Number: 0001330-20-7	10 - 25	Flam. Liq. 3;H226 Acute Tox. 4;H332 Acute Tox. 4;H312 Skin Irrit. 2;H315	[1][2]
3-Methoxybutyl acetate CAS Number: 0004435-53-4	10 - 25	Eye Irrit. 2;H319	[1]
Ethyl orthoformate CAS Number: 0000122-51-0	1.0 - 10	Flam. Liq. 2;H225	[1]
1,6-Hexamethylene Diisocyanate CAS Number: 0000822-06-0	0.10 - 1.0	Acute Tox. 3;H331 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Resp. Sens. 1;H334 Skin Sens. 1;H317	[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures General

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	Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin	In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.
Ingestion	If swallowed, immediately contact Poison Control Center at 1-800-854-6813. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person.
4.2. Most important syr	mptoms and effects, both acute and delayed
Overview	NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Avoid contact with eyes, skin and clothing.
Inhalation	Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing dizziness, headache or nausea.
Eyes	Causes severe eye irritation. Avoid contact with eyes.
Skin	Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion	Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea, or drowsiness.
	5. Fire-fighting measures

5.1. Extinguishing media

CAUTION: This product has a very low flashpoint. Use of water spray when fighting fire may be inefficient. SMALL FIRES: Use dry chemical, CO2, water spray or alcohol-resistant foam. LARGE FIRES: Use water spray, fog, or alcohol-resistant foam. Do not use straight streams. Move containers from fire area if you can do so without risk. Runoff from fire control may cause pollution. Dike fire control water for later disposal. Do not scatter the material.

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses. 127

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

ELIMINATE ALL IGNITION SOURCES (no smoking, flares, sparks or flames in immediate area). Use only non-sparking equipment to handle spilled material and absorbent. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use non-sparking tools to collect absorbed material.

6.2. Environmental precautions

Do not allow spills to enter drains or watercourses.

6.3. Methods and material for containment and cleaning up

CALL CHEMTREC at (800)-424-9300 for emergency response. Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. LARGE SPILLS: Consider initial downwind evacuation for at least 300 meters (1000 feet).

7. Handling and storage

7.1. Precautions for safe handling

Handling

Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discared after each use.

In Storage Keep away from heat, sparks and flame.

7.2. Conditions for safe storage, including any incompatibilities
Store between 40-100F (4-38C).
Avoid contact with eyes, skin and clothing.
Strong oxidizing agents.
Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone.

7.3. Specific end use(s)

Close container after each use.

Wash thoroughly after handling.

Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

<ol><li>Exposure c</li></ol>	controls	and	personal	protection	
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	Exposure				
CAS No.	Ingredient	Source	Value		
		OSHA	No Established Limit		
		ACGIH	No Established Limit		
		NIOSH	No Established Limit		
		Supplier	No Established Limit		
		OHSA, CAN	50 ppm TWA; 270 mg/m3 TWA		
		Mexico	No Established Limit		
		Brazil	No Established Limit		
0000122-51-0	Ethyl orthoformate	OSHA	No Established Limit		
		ACGIH	No Established Limit		
		NIOSH	No Established Limit		
		Supplier	No Established Limit		
		OHSA, CAN	No Established Limit		
		Mexico	No Established Limit		
		Brazil	No Established Limit		
0000822-06-0	1,6-Hexamethylene Diisocyanate	OSHA	No Established Limit		
I		ACGIH	0.005 ppm TWA		
		NIOSH	0.005 ppm TWA; 0.035 mg/m3 TWA0.020 ppm Ceiling (10 min); 0.140 mg/m3 Ceiling (10 min)		
		Supplier	No Established Limit		
		OHSA, CAN	0.005 ppm TWA (designated substances regulation, listed under Isocyanates, organic compounds); 0.02 ppm Ceiling (designated substances regulation, listed under Isocyanates, organic compounds0.005 ppm TWA (listed under Isocyanates, organic compounds (Hexamethylene diisocyanate (HDI)));		
		Mexico	0.005 ppm TWA VLE-PPT		
		Brazil	No Established Limit		
0001330-20-7	Xylene	OSHA	100 ppm TWA; 435 mg/m3 TWA150 ppm STEL; 655 mg/m3 STEL		
		ACGIH	100 ppm TWA150 ppm STEL		
		NIOSH	No Established Limit		
		Supplier	No Established Limit		
		OHSA, CAN	100 ppm TWA150 ppm STEL		
		Mexico	100 ppm TWA VLE-PPT150 ppm STEL [PPT-CT]		
		Brazil	78 ppm TWA LT; 340 mg/m3 TWA LT		

8.1. Control parameters

0004435-53-4 3-1	Methoxybutyl acetate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0028182-81-2 HE	DI Homopolymer	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit

#### Health Data

CAS No.	Ingredient	Source	Value
0000108-65-6	2-Methoxy-1-Methylethyl Acetate	NIOSH	No Established Limit
0000122-51-0	Ethyl orthoformate	NIOSH	No Established Limit
0000822-06-0	1,6-Hexamethylene Diisocyanate		Respiratory effects and sensitization pulmonary irritation (Listed under
0001330-20-7	Xylene		Central nervous system depressant; respiratory and eye irritation
0004435-53-4	3-Methoxybutyl acetate	NIOSH	No Established Limit
0028182-81-2	HDI Homopolymer	NIOSH	No Established Limit

	Carcinogen Data				
CAS No.	Ingredient	Source	Value		
0000108-65-6	0000108-65-6 2-Methoxy-1-Methylethyl	OSHA	Select Carcinogen: No		
	Acetate	NTP	Known: No; Suspected: No		
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		
0000122-51-0	Ethyl orthoformate	OSHA	Select Carcinogen: No		
		NTP	Known: No; Suspected: No		
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		
0000822-06-0	1,6-Hexamethylene	OSHA	Select Carcinogen: No		
	Diisocyanate	NTP	Known: No; Suspected: No		
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		
0001330-20-7	Xylene	OSHA	Select Carcinogen: No		
	NTP	Known: No; Suspected: No			
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;		
0004435-53-4	3-Methoxybutyl acetate	OSHA	Select Carcinogen: No		
		NTP	Known: No; Suspected: No		
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		
0028182-81-2	HDI Homopolymer OSHA NTP	OSHA	Select Carcinogen: No		
		NTP	Known: No; Suspected: No		
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		

8.2. Exposure controls

Respiratory

Select equipment to provide protection from the ingredients listed in Section 3 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor, or mist

	levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. FOR USERS OF 3M RESPIRATORY PROTECTION ONLY: For information and assistance on 3M occupational health and safety products, call OH&ESD Technical Service toll free in U.S.A. 1-800-243-4630, in Canada call 1-800-267-4414. Please do not contact these numbers regarding other manufacturer's respiratory protection products. 3M does not endorse the accuracy of the information contained in this Material Safety Data Sheet.
Eyes	Avoid contact with eyes. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products. When there is a risk of ignition from static electricity, wear antistatic protective clothing and footwear. Any additional personal protective equipment or measures should be selected based on the risk assessment of the task being performed and should be approved by a specialist before handling this product.
Engineering Controls	Depending on the site-specific conditions of use, provide adequate ventilation.
Other Work Practices	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove soiled clothing and wash clothing thoroughly before reuse. Shower after work using plenty of soap and water.

9. Physical and chemical properties				
Appearance	Coloured Liquid			
Odor threshold	Not Measured			
рН	No Established Limit			
Melting point / freezing point	Not Measured			
Initial boiling point and boiling range	137 (°C) 279 (°F)			
Flash Point	39 (°C) 103 (°F)			
Evaporation rate (Ether = 1)	Not Measured			
Flammability (solid, gas)	Not Applicable			
Upper/lower flammability or explosive limits	Lower Explosive Limit: 1			
	Upper Explosive Limit: No Established Limit			
vapor pressure (Pa)	Not Measured			
Vapor Density	Heavier than air			
Specific Gravity	1.05			
Solubility in Water	Not Measured			
Partition coefficient n-octanol/water (Log Kow)	Not Measured			
Auto-ignition temperature	Not Measured			
Decomposition temperature	Not Measured			
Viscosity (cSt)	No Established Limit Not Measured			
VOC %	Refer to the Technical Data Sheet or label where information is available.			

### 10.1. Reactivity

No data available

10.2. Chemical stability

This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fumes generation can occur if improperly handled.

10. Stability and reactivity

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available 10.5. Incompatible materials Strong oxidizing agents. 10.6. Hazardous decomposition products No data available

11. Toxicological information

Acute toxicity

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr
HDI Homopolymer - (28182-81-2)	5,000.00, Rat - Category: 5	No data available	No data available	No data available
2-Methoxy-1-Methylethyl Acetate - (108-65-6)	6,190.00, Rat - Category: NA	2,001.00, Rabbit - Category: 5	No data available	No data available
Xylene - (1330-20-7)	4,299.00, Rat - Category: 5	1,548.00, Rabbit - Category: 4	No data available	20.00, Rat - Category: NA
3-Methoxybutyl acetate - (4435-53-4)	4,210.00, Rat - Category: 5	No data available	No data available	No data available
Ethyl orthoformate - (122-51-0)	7,060.00, Rat - Category: NA	17,820.00, Rabbit - Category: NA	No data available	No data available
1,6-Hexamethylene Diisocyanate - (822-06-0)	746.00, Rat - Category: 4	7,000.00, Rabbit - Category: NA	No data available	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	Not Classified	Not Applicable
Acute Toxicity (skin)	Not Classified	Not Applicable
Acute Toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Eye damage/irritation	2	Causes serious eye irritation.
Sensitization (respiratory)	Not Classified	Not Applicable
Sensitization (skin)	1	May cause an allergic skin reaction.
Germ toxicity	Not Classified	Not Applicable
Carcinogenicity	Not Classified	Not Applicable
Reproductive Toxicity	Not Classified	Not Applicable
Specific target organ systemic Toxicity (repeated exposure)	Not Classified	Not Applicable
Aspiration hazard	Not Classified	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
	100.00, Danio rerio		

HDI Homopolymer - (28182-81-2)		100.00, Daphnia magna	100.00 (72 hr), Scenedesmus subspicatus
2-Methoxy-1-Methylethyl Acetate - (108-65-6)	100.00, Oncorhynchus mykiss	501.00, Daphnia magna	1,001.00 (96 hr), Pseudokirchnerella subcapitata
Xylene - (1330-20-7)	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales
3-Methoxybutyl acetate - (4435-53-4)	7.10, Danio rerio	360.00, Daphnia magna	Not Available
Ethyl orthoformate - (122-51-0)	592.00, Leuciscus idus	Not Available	Not Available
1,6-Hexamethylene Diisocyanate - (822-06-0)	82.80, Danio rerio	89.10, Daphnia magna	77.40 (72 hr), Desmodesmus subspicatus

12.2. Persistence and degradability
No data available
12.3. Bioaccumulative potential
Not Measured
12.4. Mobility in soil
No data available
12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.
12.6. Other adverse effects
No data available

#### 13. Disposal considerations

13.1. Waste treatment methods

Do not allow spills to enter drains or watercourses.

Dispose of in accordance with local, state and federal regulations. (Also reference RCRA information in Section 15 if listed).

### 14. Transport information

14.1. UN number

UN 1263 PAINT RELATED MATERIAL

14.2. UN proper shipping name14.3. Transport hazard class(es)

DOT (Domestic Surface	e Transportation)	IMO / IMDG (Ocean	Transportation)
Proper Shipping Name	PAINT RELATED MATERIAL	IMDG Proper Shipping Name	PAINT RELATED MATERIAL
Hazard Class	3 - Flammable	IMDG Hazard Class Sub Class	3 - Flammable Not applicable
UN / NA Number	UN 1263		
Packing Group	III	IMDG Packing Group	III
CERCLA/DOT RQ	105 gal./917 lbs.	System Reference Code	3
14.4. Packing group	Ш		
14.5. Environmental hazard	s		
IMDG Marine Pol	lutant: No		
14.6. Special precautions for	or user		
Not Applicable			
14.7. Transport in bulk acco Not Applica	ording to Annex II of MARPOL73, able	/78 and the IBC Code	

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	15. Regulatory information		
Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.		
WHMIS Classification	B3 D2B		
DOT Marine Pollutants (No Product Ingr			
DOT Severe Marine Po (No Product Ingr			
EPCRA 311/312 Chem	nicals and RQs (>.1%):		
1,6-Hexamethyle	ne Diisocyanate (100 lb final RQ; 45.4 kg final RQ)		
Xylene (100 lb	final RQ; 45.4 kg final RQ)		
EPCRA 302 Extremely (No Product Ingr			
EPCRA 313 Toxic Che	micals (>.1%) :		
1,6-Hexamethyle	ne Diisocyanate		
Xylene			
Mass RTK Substances	(>1%) :		
Ethyl orthoformat	e		
Xylene			
Penn RTK Substances	(>1%):		
Ethyl orthoformat	e		
Xylene			
Penn Special Hazardous Substances (>.01%) : (No Product Ingredients Listed)			
RCRA Status:			
(No Product Ingr	edients Listed)		
N.J. RTK Substances (	>1%) :		
3-Methoxybutyl acetate			
Ethyl orthoformate			
Xylene			
N.J. Special Hazardous	s Substances (>.01%) :		
Ethyl orthoformat	e		
Xylene			
N.J. Env. Hazardous S	ubstances (>.1%):		
1,6-Hexamethyle	ne Diisocyanate		
Xylene			
Proposition 65 - Carcinogens (>0%):			
(No Product Ingredients Listed)			
Proposition 65 - Female Repro Toxins (>0%): (No Product Ingredients Listed)			
Proposition 65 - Male F			
(No Product Ingr			
Proposition 65 - Developmental Toxins (>0%): (No Product Ingredients Listed)			

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled.

H335 May cause respiratory irritation.

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