

## SAFETY DATA SHEET

Section 1. Identification			
Product identifier	: 1051		
Product name	: Permahyd® Hi-TEC Blend-in Additive		
Other means of identification	: 4025331467236		
Date of issue	: 4/15/2021		
Version	: 6		
Relevant identified uses of the	ne 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, LLC Two Commerce Square, 2001 Market Street Suite 3600 Philadelphia, PA 19109 USA		
Product information	855-6AXALTA		
Emergency telephone number	: (CHEMTREC) - 800-424-9300		

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 4 SERIOUS EYE DAMAGE - Category 1

GHS label elements

Hazard pictograms



2

Signal word Hazard statements	: Danger : ₱227 - Combustible liquid. H318 - Causes serious eye damage.
Precautionary statements	
Prevention	<ul> <li>₽280 - Wear eye or face protection.</li> <li>P210 - Keep away from flames and hot surfaces. No smoking.</li> </ul>
Response	: ₱305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: 🗚403 + P235 - Store in a well-ventilated place. Keep cool.

#### 1051

### Section 2. Hazards identification

Disposal	: <b>P</b> 501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture		
Ingredient name		%	CAS number
<mark>≇-</mark> pentanol		≤5	71-41-0

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 :	Set medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation :	Set medical attention immediately. Call a poison center or physician. 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. 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.
Skin contact :	Set medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion :	Set medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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

Potential acute health effects			
Eye contact	: 🗭auses serious eye damage.		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: No known significant effects or critical hazards.		

# Section 4. First aid measures

No known significant effects or critical hazards.	
<u>otoms</u>	
<ul> <li>Adverse symptoms may include the following: pain watering redness</li> </ul>	
: No specific data.	
: Adverse symptoms may include the following: pain or irritation redness blistering may occur	
: Adverse symptoms may include the following: stomach pains	
dical attention and special treatment needed, if necessary	
: <b>F</b> reat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
: No specific treatment.	
: 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	: Vse dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: ₱o 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
Special protective actions for fire-fighters	: Fromptly 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	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	onta	ainment 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

### information and Section 13 for waste disposal. Section 7. Handling and storage

#### Precautions for safe handling Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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 : 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, occupational hygiene drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact

#### 1051

## Section 7. Handling and storage

Conditions for safe storage,	: Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in accordance
including any	with local regulations. Store in a segregated and approved area. Store in original
incompatibilities	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	
<mark>≇</mark> -pentanol		AIHA WEEL (United States, 7/2018). TWA: 100 ppm 8 hours.	
Appropriate engineering controls	other engineering controls recommended or statutory	ntilation. Use process enclosures, local exhaust ventilation or to keep worker exposure to airborne contaminants below any limits. The engineering controls also need to keep gas, ns below any lower explosive limits. Use explosion-proof	
Environmental exposure controls	they comply with the requir cases, fume scrubbers, filt	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Individual protection measu	res		
Hygiene measures	eating, smoking and using Appropriate techniques sho	d face thoroughly after handling chemical products, before the lavatory and at the end of the working period. ould be used to remove potentially contaminated clothing. ng before reusing. Ensure that eyewash stations and safety orkstation location.	
Eye/face protection	assessment indicates this gases or dusts. If contact the assessment indicates a	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 and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.	
Skin protection			
Hand protection	worn at all times when han necessary. Considering th during use that the gloves noted that the time to break glove manufacturers. In th	tious gloves complying with an approved standard should be dling chemical products if a risk assessment indicates this is e parameters specified by the glove manufacturer, check are still retaining their protective properties. It should be kthrough for any glove material may be different for different e case of mixtures, consisting of several substances, the es cannot be accurately estimated.	
Body protection		nent for the body should be selected based on the task being volved and should be approved by a specialist before	

## Section 8. Exposure controls/personal protection

Other skin protection	: Kppropriate 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	
Physical state	: Liquid.
Color	: Milky.
Odor	: Not available.
Odor threshold	: Not available.
рН	: 7.5 to 9
Melting point	: Not applicable.
Boiling point	: Not applicable.
Flash point	: Ølosed cup: 62.222°C (144°F) [Product does not sustain combustion.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1.1% Upper: 14%
Vapor pressure	:
Vapor density	: Not available.
Density	: <b>1∕.</b> 003 g/cm³
Solubility	: Soluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: 207°C (404.6°F)
Decomposition temperature	: Not applicable.
Viscosity	: Øynamic: 92 mPa⋅s (92 cP) Kinematic: 0.92 cm²/s (92 cSt)
Flow time (ISO 2431)	: 69 s (room temperature) [Jet diameter: 4 mm]

## 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	: Moder normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Kvoid 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	: Vinder normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>≸</b> -pentanol	Eyes - Severe irritant Eyes - Severe irritant Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit Rabbit Rabbit	- - -	81 mg 24 hours 5 uL 24 hours 20 mg 24 hours 3200 mg	- - -

#### Sensitization

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>∲</b> -pentanol	Category 3		Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

# Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Eye contact: Causes serious eye damage.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

## Section 11. Toxicological information

	5
Eye contact	: Adverse symptoms may include the following:
	pain
	watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:
	pain or irritation redness
	blistering may occur
Ingestion	: Adverse symptoms may include the following:
ingestion	stomach pains
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
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
Øral	71428.57 mg/kg
Dermal	71428.57 mg/kg

## 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.

#### 1051

### 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

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)				-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### Transport in bulk according : Not available. 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

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Zsted
<u>SARA 304 RQ</u>	
SARA 304 RQ	: #405286343.6 lbs / 200000000 kg [526763812.6 gal / 1994017946.2 L]
<u>SARA 311/312</u>	

### Section 15. Regulatory information

Classificati	on	:	FLAMMA
			0000000

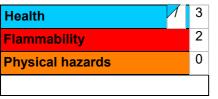
AMMABLE LIQUIDS - Category 4 SERIOUS EYE DAMAGE - Category 1

#### Inventory list

Canada	:	🕅 components are listed or exempted.
United States	:	Al components are listed or exempted.

### 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.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### <u>History</u>

Date of issue	: 4/15/2021
Version	: 6
	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 IMDG = 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

✓ Indicates information that has changed from previously issued version. <u>Notice to reader</u>

### Section 16. Other information

This product is intended for industrial use only.

Safety Data Sheet (SDS) content is believed to be accurate as of its issue date, but is subject to change as new information is received by Axalta Coatings Systems, LLC or any of its subsidiaries or affiliates (Axalta). This SDS may incorporate information that has been provided to Axalta by its suppliers. Users should ensure that they are referring to the most current version of the SDS. Users are responsible for following the precautions identified in this SDS. It is the users' responsibility to comply with all laws and regulations applicable to the safe handling, use, and disposal of the product.

Users of Axalta products should read all relevant product information prior to use, and make their own determination as to the suitability of the products for their intended use. Except as otherwise required by applicable law, AXALTA MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The information on this SDS relates only to the specific product identified in Section 1, Identification, and does not relate to its possible use in combination with any other material or in any specific process. If this product is to be used in combination with other products, Axalta encourages you to read and understand the SDS for all products prior to use.

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