SAFETY DATA SHEET

Version #: 03

Issue date: 02-16-2024 Revision date: 07-03-2024 Supersedes date: 07-03-2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

of the mixture

Phillybond Orange Hardener

Registration number

Synonyms None SKU# DM014H

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Not available. Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

ITW Performance Polymers Company Name

Address Bay 150

Shannon Industrial Estate

Co. Clare Ireland V14 DF82

Contact Person Customer Service Telephone Number 353(61)771500

353(61)471285

customerservice.shannon@itwpp.com Email

44(0) 1235 239 670 (24 hours) **Emergency Phone Number**

1.4. Emergency telephone number

112 (Available 24 hours a day. SDS/Product information may not be available for General in EU

the Emergency Service.)

Austria National Poisons

Information Center

available for the Emergency Service.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day. SDS/Product information may not be

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Bulgaria National

Toxicological Information

Center

+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Croatia Poisons Information Center +385 1 2348 342 (Hours of operation not provided. SDS/Product information may

not be available for the Emergency Service.)

1401 (Available 24 hours a day. SDS/Product information may not be available **Cyprus Poison Center**

for the Emergency Service.)

Czech Republic National Poisons Information Center

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons

Control Center

+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Estonia National Poisons Information Center

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be

available for the Emergency Service.)

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center

ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Material name: Phillybond Orange Hardener

1.4. Emergency telephone number

Greece Poison Information Centre

(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Hungary National Emergency Phone Number +36-80-201-199 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Iceland Poison Center

(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Latvia Emergency medical

aid

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Latvia Poison and Drug Information Center

+371 67042473 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Lithuania Neatidėliotina informacija apsinuodijus

+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Malta Accident and **Emergency Department** 2545 4030 (Hours of operation not provided. SDS/Product information may not be

available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC)

NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel

in cases of acute intoxications)

Norway Norwegian Poison Information Center

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Portugal Poison Center

800 250 250 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Romania Biroul RSI si Informare Toxicologica 021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be

available for the Emergency Service.)

Slovakia National Toxicological Information Center

+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Spain Toxicology Information Service + 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day. SDS/Product

information may not be available for the Emergency Service.)

Switzerland Tox Info Suisse

145 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, inhalation Category 4 H332 - Harmful if inhaled.

Skin corrosion/irritation Category 1B H314 - Causes severe skin burns

and eye damage.

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Skin sensitization Category 1 H317 - May cause an allergic skin

reaction

Environmental hazards

Hazardous to the aquatic environment, Category 3 H412 - Harmful to aquatic life with

long-term aquatic hazard long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

UFI:

EU: A215-61AK-N00P-FEY3

Epoxy Curing Agent, Silicon Dioxide, benzyl alcohol, Formaldehyde, Polymer With Benzenamine, Contains:

Hydrogenated, 4,4'-methylenedicyclohexaneamine

Material name: Phillybond Orange Hardener DM014H Version #: 03 Revision date: 07-03-2024 Issue date: 02-16-2024

Hazard pictograms



Signal word	Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P260 Do not breathe dust or mists.
P261 Avoid breathing mist/vapors.
P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P405 Store locked up.

Disposal

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

Supplemental label information 35,416% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 26,488% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

2.3. Other hazardsThis mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a

concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Epoxy Curing Agent		60 - < 70	Trade Secret	-	-	
	Classification: -		-			
Silicon Dioxide		10 - < 20	112945-52-5 231-545-4	-	-	
	Classification: -					
benzyl alcohol		5 - < 10	100-51-6 202-859-9	-	603-057-00-5	
				ng/kg bw), Acute Tox. 4;H31 ATE: 11 mg/l), Aquatic Chro		
Formaldehyde, Polym Benzenamine, Hydrod		5 - < 10	135108-88-2	-	-	

Classification: -

Chemical name % CAS-No. / EC No. REACH Registration No. **Notes** Index No. 4,4'-methylenedicyclohexaneamine 1761-71-3 < 1 217-168-8

Classification: -

5 - < 10 Other components below reportable

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all H-statements is displayed in section 16. **Composition comments**

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician Skin contact

or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

observation. Symptoms may be delayed.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising

During fire, gases hazardous to health may be formed.

from the substance or mixture 5.3. Advice for firefighters

> Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

Material name: Phillybond Orange Hardener

6.3. Methods and material for containment and cleaning up

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Avoid breathing mist/vapors. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Observe industrial sector guidance on best practices. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001, as amended				
Components	Туре	Value	Form	
Silicon Dioxide (CAS 112945-52-5)	STEL	20 mg/m3	Inhalable fraction.	
		10 mg/m3	Respirable fraction.	

Belgium, OEL, Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 -Chemical agents, as amended

Components	Туре	Value	Form
Silicon Dioxide (CAS 112945-52-5)	TWA	3 mg/m3	Respirable fraction.
ŕ		10 mg/m3	Inhalable fraction.

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Туре	Value	Form
benzyl alcohol (CAS 100-51-6)	TWA	5 mg/m3	
Silicon Dioxide (CAS 112945-52-5)	TWA	4 mg/m3	Inhalable fraction.
		0,07 mg/m3	Respirable fraction.

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Туре	Value	Form
Silicon Dioxide (CAS 112945-52-5)	MAC	6 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended Components **Type** Value

Silicon Dioxide (CAS	TWA	2 mg/m3
112945-52-5)		

Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Туре	Value	Form
benzyl alcohol (CAS 100-51-6)	Ceiling	80 mg/m3	
	TWA	40 mg/m3	

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361/2007, Annex 2, Part A & An Components	Type	Value	Form
Silicon Dioxide (CAS 112945-52-5)	TWA	4 mg/m3	Dust.
Denmark. Work Environment A Components	uthority. Exposure Limits for Su Type	bstances & Materials, Annex Value	2 Form
Silicon Dioxide (CAS	STEL	20 mg/m3	Dust.
112945-52-5)		10 mg/m3	Respirable dust.
		1 mg/m3	Respirable quartz fraction.
	TLV	5 mg/m3	Respirable dust.
		10 mg/m3	Dust.
		0,5 mg/m3	Respirable quartz fraction.
Finland. HTP-arvot, App 3., Bin Components	ding Limit Values, Social Affairs Type	and Ministry of Health Value	
benzyl alcohol (CAS 100-51-6)	TWA	45 mg/m3	
,		10 ppm	
Silicon Dioxide (CAS 112945-52-5)	TWA	5 mg/m3	
	ory OELs). Commission for the I	nvestigation of Health Hazard	ls of Chemical Compou
in the Work Area (DFG), as upd Components	Type	Value	Form
in the Work Area (DFG), as upd Components benzyl alcohol (CAS	lated	Value 22 mg/m3	Form Vapor and aerosol.
in the Work Area (DFG), as upd Components benzyl alcohol (CAS 100-51-6)	Type TWA	Value 22 mg/m3 5 ppm	Form Vapor and aerosol. Vapor and aerosol.
in the Work Area (DFG), as upd Components benzyl alcohol (CAS 100-51-6) Silicon Dioxide (CAS	Type	Value 22 mg/m3	Form Vapor and aerosol.
in the Work Area (DFG), as upd Components Denzyl alcohol (CAS 100-51-6) Silicon Dioxide (CAS 112945-52-5) Germany. TRGS 900, Limit Valu	Type TWA TWA ues in the Ambient Air at the Wor	Value 22 mg/m3 5 ppm 0,02 mg/m3	Form Vapor and aerosol. Vapor and aerosol. Respirable fraction.
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Value

240 mg/m3

1286/2018, Annex 1) Components

benzyl alcohol (CAS 100-51-6)

Type

TWA

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Ann. I 100/2001), as amended

Components	Туре	Value	Form
benzyl alcohol (CAS 100-51-6)	KTV	44 mg/m3	
		10 ppm	
Silicon Dioxide (CAS 112945-52-5)	KTV	20 mg/m3	Inhalable fraction.
		2,5 mg/m3	Respirable fraction.

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Type	Value	Form
benzyl alcohol (CAS 100-51-6)	TWA	22 mg/m3	
		5 ppm	
Silicon Dioxide (CAS 112945-52-5)	TWA	4 mg/m3	Inhalable fraction.
		10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Туре	Value	Form
Silicon Dioxide (CAS 112945-52-5)	TWA	3 mg/m3	Respirable fraction.
,		10 mg/m3	Inhalable fraction

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Type	Value	Form	
Silicon Dioxide (CAS 112945-52-5)	TWA	5 mg/m3	Inhalable dust.	_
·		2,5 mg/m3	Respirable dust.	

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte					
Components	Туре	Value	Form		
benzyl alcohol (CAS 100-51-6)	TWA	22 mg/m3	Vapor and aerosol.		

5 ppm

Vapor and aerosol.

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

_

Not available.

Predicted no effect concentrations (PNECs)

Not available.

Exposure guidelines

Germany DFG MAK (advisory): Skin designation

benzyl alcohol (CAS 100-51-6)

Can be absorbed through the skin.

Germany TRGS 900 Limit Values: Skin designation

benzyl alcohol (CAS 100-51-6) Can be absorbed through the skin.

Lithuania OELs: Skin designation

benzyl alcohol (CAS 100-51-6)

Can be absorbed through the skin.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

benzyl alcohol (CAS 100-51-6)

Can be absorbed through the skin.

Switzerland SUVA Limit Values at the Workplace: Skin designation

benzyl alcohol (CAS 100-51-6)

Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. - Other Wear appropriate chemical resistant clothing.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

> and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid. Liquid. Paste. **Form** Amber Color Amine Odor

Melting point/freezing point 4,64 °F (-15,2 °C) estimated 100 °F (37,78 °C) estimated **Boiling point or initial boiling**

point and boiling range

Not applicable. Flammability Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

200,0 °F (93,3 °C) estimated Flash point 816,8 °F (436 °C) estimated **Auto-ignition temperature**

Not available **Decomposition temperature** Not available. Kinematic viscosity Not available.

Solubility

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water) (log value)

0,4 hPa estimated Vapor pressure

Density and/or relative density

Density 1,16 g/cm3 estimated

Not available. Vapor density Not available. **Particle characteristics**

9.2. Other information

No relevant additional information available. 9.2.1. Information with regard to physical hazard classes

9.2.2. Other safety characteristics

Percent volatile 8,93 % estimated 1,16 estimated Specific gravity

VOC 8.93 % estimated

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidizing agents.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Causes serious eye damage. Eye contact Ingestion Causes digestive tract burns.

Symptoms Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Harmful if inhaled. Acute toxicity

Components **Species Test Results**

benzyl alcohol (CAS 100-51-6)

Acute

Dermal

LD50 Rabbit 2000 mg/kg

Silicon Dioxide (CAS 112945-52-5)

Acute Oral

LD50 Rat > 22500 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization May cause an allergic skin reaction.

Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Silicon Dioxide (CAS 112945-52-5) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible. **Aspiration hazard**

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No

1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

Other information Not available.

Material name: Phillybond Orange Hardener

SECTION 12: Ecological information

Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria 12.1. Toxicity

are not met for hazardous to the aquatic environment, acute hazard.

1,1

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

benzyl alcohol

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting properties

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8. Additional information

Estonia Dangerous substances in soil Data

benzyl alcohol (CAS 100-51-6) Chemical pesticides (As the total sum of the active substances)

0,5 MG/KG

Chemical pesticides (As the total sum of the active substances) 20

MG/KG

Chemical pesticides (As the total sum of the active substances) 5

MG/KG

Silicon Dioxide (CAS 112945-52-5) Chemical pesticides (As the total sum of the active substances)

0.5 MG/KG

Chemical pesticides (As the total sum of the active substances) 20

MG/KG

Chemical pesticides (As the total sum of the active substances) 5

MG/KG

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

The Waste code should be assigned in discussion between the user, the producer and the waste EU waste code

disposal company.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow Disposal methods/information

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Special precautions

SECTION 14: Transport information

ADR

UN2735 14.1. UN number

14.2. UN proper shipping AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(Aliphatic amine) name

14.3. Transport hazard class(es)

8 Class Subsidiary hazard 8 Label(s) 80 Hazard No. (ADR) Ε **Tunnel restriction code** 14.4. Packing group

14.5. Environmental hazards No.

Material name: Phillybond Orange Hardener DM014H Version #: 03 Revision date: 07-03-2024 Issue date: 02-16-2024

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user RID UN2735 14.1. UN number AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. 14.2. UN proper shipping (Aliphatic amine) 14.3. Transport hazard class(es) Class 8 **Subsidiary hazard** Label(s) 8 14.4. Packing group Ш 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user **ADN** 14.1. UN number UN2735 AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. 14.2. UN proper shipping (Aliphatic amine) name 14.3. Transport hazard class(es) 8 Class Subsidiary hazard 8 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards No. Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user **IATA LIN2735** 14.1. UN number 14.2. UN proper shipping Amines, liquid, corrosive, n.o.s. (Aliphatic amine) name 14.3. Transport hazard class(es) Class 8 Subsidiary hazard Ш 14.4. Packing group 14.5. Environmental hazards No. **ERG Code** 81 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user Other information Allowed with restrictions. Passenger and cargo aircraft Allowed with restrictions. Cargo aircraft only **IMDG** 14.1. UN number UN2735 14.2. UN proper shipping AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. name (Aliphatic amine) 14.3. Transport hazard class(es) 8 Class Subsidiary hazard 14.4. Packing group Ш 14.5. Environmental hazards Marine pollutant No. **EmS** F-A, S-B 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user

14.7. Maritime transport in bulk

according to IMO instruments

Not established.



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Silicon Dioxide (CAS 112945-52-5)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

UFI:

EU: A215-61AK-N00P-FEY3

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

benzyl alcohol (CAS 100-51-6)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Young people under 18 years old are not allowed to work with this product according to EU

Directive 94/33/EC on the protection of young people at work, as amended. Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow national regulation for

work with chemical agents in accordance with Directive 98/24/EC, as amended.

Contains a substance which is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances

Silicon Dioxide (CAS 112945-52-5)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen Gipsfasernund Wollastonitfasern)

France regulations

France INRS Table of Occupational Diseases

Not regulated.

Material name: Phillybond Orange Hardener

Product registration number

UFI: A215-61AK-N00P-FEY3 Austria UFI: A215-61AK-N00P-FEY3 **Belgium** Czech Republic UFI: A215-61AK-N00P-FEY3 UFI: A215-61AK-N00P-FEY3 Denmark UFI: A215-61AK-N00P-FEY3 **European Union Finland** UFI: A215-61AK-N00P-FEY3 **France** UFI: A215-61AK-N00P-FEY3 UFI: A215-61AK-N00P-FEY3 Germany UFI: A215-61AK-N00P-FEY3 Greece UFI: A215-61AK-N00P-FEY3 Hungary Italy UFI: A215-61AK-N00P-FEY3 **Netherlands** UFI: A215-61AK-N00P-FEY3 Norway UFI: A215-61AK-N00P-FEY3 **Poland** UFI: A215-61AK-N00P-FEY3 **Portugal** UFI: A215-61AK-N00P-FEY3 Slovakia UFI: A215-61AK-N00P-FEY3 Slovenia UFI: A215-61AK-N00P-FEY3 UFI: A215-61AK-N00P-FEY3 Spain UFI: A215-61AK-N00P-FEY3 Sweden UFI: A215-61AK-N00P-FEY3 Switzerland

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data. if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Revision information

Product and Company Identification: Product Registration Numbers

Training information

Follow training instructions when handling this material.

Disclaimer

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.