

# **SAFETY DATA SHEET**

#### 1. Identification

Product identifier HumiSeal 1A34

Other means of identification

Product code HumiSeal 1A34

Recommended use Protective Coating for Printed Circuit Board

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name CHASE CORPORATION Zeta Drive Plant

Address 201 Zeta Drive

Pittsburgh, PA 15238

United States

Telephone1-866-932-0800E-mailNot available.

**Emergency phone number** 1-800-424-9300 Chemtrec, US

Flammable liquids

(+1)703-527-3887 Chemtrec, outside of US

Category 2

Category 2

# 2. Hazard(s) identification

**Physical hazards** 

**Health hazards** Acute toxicity, dermal Category 4 Acute toxicity, inhalation Category 3 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Sensitization, respiratory Category 1 Sensitization, skin Category 1 Category 2 Carcinogenicity Reproductive toxicity (the unborn child) Category 2 Specific target organ toxicity, repeated Category 1 exposure Hazardous to the aquatic environment, acute Category 2 **Environmental hazards** hazard

long-term hazard

OSHA defined hazards Not classified.

Label elements



Hazardous to the aquatic environment,

Signal word Danger

Material name: HumiSeal 1A34 SDS US

#### **Hazard statement**

Highly flammable liquid and vapor. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

# **Precautionary statement** Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

#### Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor. Specific treatment (see this label). If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

**Disposal** 

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

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

39.83% of the mixture consists of component(s) of unknown acute dermal toxicity. 41.46% of the mixture consists of component(s) of unknown acute inhalation toxicity. 39.83% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 39.15% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name Common name and synonyms		CAS number	%
XYLENES		1330-20-7	30 - < 40
ETHYLBENZENE		100-41-4	10 - < 20
P-XYLENE		106-42-3	10 - < 20
TOLUENE		108-88-3	1 - < 3
TOLUENE DIISOCYANATE		26471-62-5	< 1
Other components below reportable levels	S		30 - < 40

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. 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. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device. Call a POISON CENTER or doctor/physician.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Take off

immediately all contaminated clothing. Get medical advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

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. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical advice/attention if you feel unwell. Ingestion

Most important symptoms/effects, acute and

delayed

Dermatitis. Rash. Difficulty in breathing. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects.

Material name: HumiSeal 1A34 SDS US Indication of immediate medical attention and special treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. Thermal 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 observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

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

Highly flammable liquid and vapor.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

#### **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

Material name: HumiSeal 1A34 SDS US

# 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

# Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Refrigeration recommended. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

U. COLLA Table 7.4 Limits for Air Contaminants (CO OFR 4040 4000)

#### **Occupational exposure limits**

Components	Туре	Value	
ETHYLBENZENE (CAS 100-41-4)	PEL	435 mg/m3	
,		100 ppm	
P-XYLENE (CAS 106-42-3)	PEL	435 mg/m3	
		100 ppm	
XYLENES (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	
US. OSHA Table Z-2 (29 CFR 1910.	1000)		
Components	Туре	Value	
TOLUENE (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
<b>US. ACGIH Threshold Limit Values</b>			
Components	Туре	Value	
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm	
P-XYLENE (CAS 106-42-3)	STEL	150 ppm	
	TWA	100 ppm	
TOLUENE (CAS 108-88-3)	TWA	20 ppm	
TOLUENE DIISOCYANATE (CAS 26471-62-5)	STEL	0.02 ppm	
,	TWA	0.005 ppm	
XYLENES (CAS 1330-20-7)	STEL	150 ppm	
•	TWA	100 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
ETHYLBENZENE (CAS 100-41-4)	STEL	545 mg/m3	

Material name: HumiSeal 1A34

SDS US

<b>US. NIOSH</b>	: Pocket	Guide to	Chemical	Hazards
------------------	----------	----------	----------	---------

Туре	Value	
	125 ppm	
TWA	435 mg/m3	
	100 ppm	
STEL	655 mg/m3	
	150 ppm	
TWA	435 mg/m3	
	100 ppm	
STEL	560 mg/m3	
	150 ppm	
TWA	375 mg/m3	
	100 ppm	
	TWA STEL TWA STEL	TWA 435 mg/m3 100 ppm STEL 655 mg/m3 150 ppm TWA 435 mg/m3 150 ppm TWA 435 mg/m3 100 ppm STEL 560 mg/m3 150 ppm TWA 375 mg/m3

#### **Biological limit values**

<b>ACGIH</b>	<b>Biological</b>	Exposure	Indices
AUUIII	Diviogical	Lxposure	maices

Components	Value	Determinant	Specimen	Sampling Time
ETHYLBENZENE (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
P-XYLENE (CAS 106-42-3	) 1.5 g/g	Methylhippuric acids	Creatinine in urine	*
TOLUENE (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
XYLENES (CAS 1330-20-7	')1.5 g/g	Methylhippuric acids	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

TOLUENE (CAS 108-88-3)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

TOLUENE (CAS 108-88-3)

Skin designation applies.

# Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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

**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. Use of an impervious apron is recommended.

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

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state Liquid. Form Liquid.

Material name: HumiSeal 1A34 sps us

Color Clear Aromatic Odor **Odor threshold** Not available. Not available. pН

-138.82 °F (-94.9 °C) estimated Melting point/freezing point 276.98 °F (136.1 °C) estimated Initial boiling point and boiling

range

44.6 °F (7.0 °C) Flash point > 1 BuAc **Evaporation rate** Flammability (solid, gas) Not available.

Flammability limit - lower

Upper/lower flammability or explosive limits

(%)

7 % Flammability limit - upper

(%)

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

11.31 hPa estimated Vapor pressure

Not available. Vapor density Relative density Not available.

Solubility(ies)

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

(n-octanol/water)

810 °F (432.22 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. 50 - 200 cP **Viscosity** 77 °F (25 °C) Viscosity temperature

Other information

**Brookfield viscosity** 50 - 200 cP Density 0.95 g/cm3

Flammable IB estimated Flammability class

Miscible (water) Negligible 60 - 70 % v/v Percent volatile pH in aqueous solution Does not apply.

Specific gravity 0.95 VOC (Weight %) 578 g/l

#### 10. Stability and reactivity

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

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Strong acids. Strong oxidizing agents. Halogens. Incompatible materials **Hazardous decomposition** No hazardous decomposition products are known.

products

reactions

# 11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Material name: HumiSeal 1A34 83 Version #: 01 Issue date: 05-17-2015 Inhalation Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure by

inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Skin contact

Causes serious eye irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics

Dermatitis. Rash. Difficulty in breathing. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May

cause an allergic skin reaction.

nformation on toxicologic	al effects		
Acute toxicity	Toxic if inhaled. Harmful in contact	ct with skin. May cause an allergic skin reaction.	
Product	Species	Test Results	
HumiSeal 1A34 (CAS Mixtur	re)		
Acute			
Dermal	<b>-</b>		
LD50	Rabbit	608.283 ml/kg estimated	
		93.7775 g/kg estimated	
<i>Inhalation</i> LC50	Cuinea nia	13237.6631 mg/l, 4 Hours estimated	
LC50	Guinea pig	•	
	Mouse	33312.832 ppm, 6 Hours estimated	
		17256.2559 ppm, 24 Hours estimated	
		11442.043 mg/l, 6 Hours estimated	
		10118.6113 mg/l, 4 Hours estimated	
	Rabbit	11.4687 mg/l, 4 Hours estimated	
	Rat	51.088 mg/l, 4 Hours estimated	
		8.3409 mg/l, 1 Hours estimated	
Oral			
LD50	Mouse	3425.9839 mg/kg estimated	
	Rat	6081.2095 mg/kg estimated	
Other			
LD50	Mouse	2261.1006 mg/kg estimated	
	Rat	8.2861 mg/kg estimated	
components	Species	Test Results	
THYLBENZENE (CAS 100	l-41-4)		
<b>Acute</b> Dermal			
LD50	Rabbit	17800 mg/kg	
Oral	. Kaban	Tr ooo mg/ng	
LD50	Rat	3500 mg/kg	
Other			
LD50	Mouse	2272 mg/kg	
-XYLENE (CAS 106-42-3)			
Acute			
Dermal			
LD50	Rabbit	> 43 g/kg	
Inhalation			
LC50	Mouse	3900 ppm, 6 Hours	
Oral	Maria	4500	
LD50	Mouse	1590 mg/kg	
	Rat	3523 - 8600 mg/kg	
Other	<b>5</b> .		
LD50	Rat	3.8 mg/kg	

Material name: HumiSeal 1A34

SDS US

7 / 13 83 Version #: 01 Issue date: 05-17-2015

Components	Species	Test Results
TOLUENE (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	12124 mg/kg
		14.1 ml/kg
Inhalation		
LC50	Mouse	5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
Oral		
LD50	Rat	2.6 g/kg
Other		
LD50	Mouse	59 mg/kg
	Rat	1332 mg/kg
TOLUENE DIISOCYANATE (C	AS 26471-62-5)	
Acute		
Inhalation		
LC50	Guinea pig	90.4 mg/l, 4 Hours
	Mouse	69.1 mg/l, 4 Hours
	Rabbit	0.0783 mg/l, 4 Hours
	Rat	0.3489 mg/l, 4 Hours
		0.057 mg/l, 1 Hours
Oral		•
LD50	Mouse	1950 mg/kg
	Rat	3060 mg/kg
XYLENES (CAS 1330-20-7)		0 0
Acute		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
Other		
LD50	Rat	3.8 mg/kg
	by be based on additional component data	not shown.
Skin corrosion/irritation	Causes skin irritation.	

Serious eye damage/eye Causes serious eye irritation.

irritation

# Respiratory or skin sensitization

**ACGIH** sensitization

TOLUENE DIISOCYANATE (CAS 26471-62-5) Sensitizer.

**Respiratory sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization** May cause an allergic skin reaction.

Material name: HumiSeal 1A34

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

ETHYLBENZENE (CAS 100-41-4)

2B Possibly carcinogenic to humans.

P-XYLENE (CAS 106-42-3)

3 Not classifiable as to carcinogenicity to humans.

TOLUENE (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

TOLUENE DIISOCYANATE (CAS 26471-62-5)

2B Possibly carcinogenic to humans.

XYLENES (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

TOLUENE DIISOCYANATE (CAS 26471-62-5) Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals. Suspected of damaging the unborn child.

Specific target organ toxicity -

single exposure

Draduat

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Toot Dooulto

Aspiration hazard Not available.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Causes

damage to organs through prolonged or repeated exposure.

# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Chasias

5.8211 mg/l, 48 hours estimated
5.5492 mg/l, 96 hours estimated
est Results
37 - 4.4 mg/l, 48 hours
5 - 11 mg/l, 96 hours
55 - 6.31 mg/l, 48 hours
6 mg/l, 96 hours
46 - 9.83 mg/l, 48 hours
11 mg/l, 96 hours
711 - 9.591 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)
ETHYLBENZENE
P-XYLENE

Material name: HumiSeal 1A34 sps us

3.15

3.15

83 Version #: 01 Issue date: 05-17-2015

Partition coefficient n-octanol / water (log Kow)

**TOLUENE** 2.73 **XYLENES** 3.12 - 3.2

Mobility in soil No data available.

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.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

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. Local disposal regulations

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

disposal company.

US RCRA Hazardous Waste U List: Reference

P-XYLENE (CAS 106-42-3) U239 **TOLUENE (CAS 108-88-3)** U220 **TOLUENE DIISOCYANATE (CAS 26471-62-5)** U223 XYLENES (CAS 1330-20-7) U239

Waste from residues / unused

products

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).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

emptied.

# 14. Transport information

DOT

**UN** number UN1263 **UN** proper shipping name **PAINT** 

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) П Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

149, B52, IB2, T4, TP1, TP8, TP28 **Special provisions** 

150 Packaging exceptions 173 Packaging non bulk Packaging bulk 242

IATA

UN1263 **UN** number **PAINT UN proper shipping name** 

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Cargo aircraft only

Allowed.

Allowed.

**IMDG** 

UN1263 **UN** number **PAINT UN proper shipping name** 

Transport hazard class(es)

Class 3

Material name: HumiSeal 1A34 83 Version #: 01 Issue date: 05-17-2015 SDS US

10 / 13

Subsidiary risk Packing group Ш

**Environmental hazards** 

Marine pollutant No.

**EmS** F-E, S-E\*

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. This substance/mixture is not intended to be transported in bulk.

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

DOT



IATA; IMDG



# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# **CERCLA Hazardous Substance List (40 CFR 302.4)**

ETHYLBENZENE (CAS 100-41-4) Listed. P-XYLENE (CAS 106-42-3) Listed. **TOLUENE (CAS 108-88-3)** Listed. **TOLUENE DIISOCYANATE (CAS 26471-62-5)** Listed. XYLENES (CAS 1330-20-7) Listed.

# SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

# SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

Material name: HumiSeal 1A34 SDS US

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
XYLENES	1330-20-7	30 - < 40	
ETHYLBENZENE	100-41-4	10 - < 20	
P-XYLENE	106-42-3	10 - < 20	
TOLUENE	108-88-3	1 - < 3	
TOLUENE DIISOCYANATE	26471-62-5	< 1	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ETHYLBENZENE (CAS 100-41-4)

P-XYLENE (CAS 106-42-3)

**TOLUENE (CAS 108-88-3)** 

XYLENES (CAS 1330-20-7)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

**TOLUENE DIISOCYANATE (CAS 26471-62-5)** 

Safe Drinking Water Act

Not regulated.

(SDWA)

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

TOLUENE (CAS 108-88-3) 6594

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

TOLUENE (CAS 108-88-3) 35 %WV

# **DEA Exempt Chemical Mixtures Code Number**

TOLUENE (CAS 108-88-3) 594

#### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

ETHYLBENZENE (CAS 100-41-4)

P-XYLENE (CAS 106-42-3)

**TOLUENE (CAS 108-88-3)** 

**TOLUENE DIISOCYANATE (CAS 26471-62-5)** 

XYLENES (CAS 1330-20-7)

# **US. New Jersey Worker and Community Right-to-Know Act**

ETHYLBENZENE (CAS 100-41-4)

P-XYLENE (CAS 106-42-3)

**TOLUENE (CAS 108-88-3)** 

**TOLUENE DIISOCYANATE (CAS 26471-62-5)** 

XYLENES (CAS 1330-20-7)

# US. Pennsylvania Worker and Community Right-to-Know Law

ETHYLBENZENE (CAS 100-41-4)

P-XYLENE (CAS 106-42-3)

**TOLUENE (CAS 108-88-3)** 

TOLUENE DIISOCYANATE (CAS 26471-62-5)

XYLENES (CAS 1330-20-7)

# US. Rhode Island RTK

ETHYLBENZENE (CAS 100-41-4)

P-XYLENE (CAS 106-42-3)

TOLUENE (CAS 108-88-3)

TOLUENE DIISOCYANATE (CAS 26471-62-5)

XYLENES (CAS 1330-20-7)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004 TOLUENE DIISOCYANATE (CAS 26471-62-5) Listed: October 1, 1989

# US - California Proposition 65 - CRT: Listed date/Developmental toxin

TOLUENE (CAS 108-88-3) Listed: January 1, 1991

# US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

TOLUENE (CAS 108-88-3) Listed: August 7, 2009

Material name: HumiSeal 1A34 83 Version #: 01 Issue date: 05-17-2015 SDS US

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

**Issue date** 05-17-2015

Version # 01

HMIS® ratings Health: 3\*

Flammability: 3 Physical hazard: 0

NFPA ratings Health: 3

Flammability: 3 Instability: 0

**Disclaimer** The information offered in this data sheet is designed only as guidance for the safe use, storage

and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This 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 other process. This material is intended for industrial use only.

No warranty, expressed or implied is made.

Material name: HumiSeal 1A34 SDS US

Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).