

# **SAFETY DATA SHEET**

# 1. Identification

**Product identifier** HumiSeal 2A64 Part B

Other means of identification

HumiSeal 2A64 Part B **Product code** 

Protective Coating for Printed Circuit Board Recommended use

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

CHASE CORPORATION Zeta Drive Plant Company name

**Address** 201 Zeta Drive

Pittsburgh, Pennsylvania 15238

**United States** 1-866-932-0800

Telephone E-mail Not available.

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

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

### 2. Hazard(s) identification

Physical hazards Flammable liquids Category 1 **Health hazards** Sensitization, respiratory Category 1 Sensitization, skin Category 1A Carcinogenicity Category 2 Reproductive toxicity Category 2 Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

Hazardous to the aquatic environment, Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Extremely flammable liquid and vapor. May cause an allergic skin reaction. May cause allergy or Hazard statement

asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

HumiSeal 2A64 Part B Version #: 03 

# **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. 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.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Response

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish.

Store in a well-ventilated place. Keep cool. Store locked up. Storage

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information 84.1% of the mixture consists of component(s) of unknown acute oral toxicity. 84.1% of the mixture consists of component(s) of unknown acute dermal toxicity. 85.9% of the mixture consists

of component(s) of unknown acute inhalation toxicity. 84.1% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 84.1% 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	%
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE		108-65-6	20 - < 30
XYLENES		1330-20-7	5 - < 10
TOLUENE		108-88-3	1 - < 3
ETHYLBENZENE		100-41-4	< 1
Toluene-2,4-diisocyanate		584-84-9	< 1
Other components below reportable	levels		60 - < 70

<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 If breathing is difficult, remove 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. If experiencing respiratory symptoms: Call a

poison center or doctor/physician.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions.

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

present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Direct contact with eves may cause temporary irritation. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

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 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

Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

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. 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

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

Extremely flammable liquid and vapor. General fire hazards

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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. 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**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.

# 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. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

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. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value
ETHYLBENZENE (CAS 100-41-4)	PEL	435 mg/m3

Components	Туре	Value	
		100 ppm	
Foluene-2,4-diisocyanate (CAS 584-84-9)	Ceiling	0.14 mg/m3	
		0.02 ppm	
(YLENES (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	
JS. OSHA Table Z-2 (29 CFR 1910.100		Value	
Components	Туре		
ΓOLUENE (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
JS. ACGIH Threshold Limit Values			_
Components	Туре	Value	Form
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm	
ΓOLUENE (CAS 108-88-3)	TWA	20 ppm	
「oluene-2,4-diisocyanate CAS 584-84-9)	STEL	0.005 ppm	Inhalable fraction and vapor.
	TWA	0.001 ppm	Inhalable fraction and vapor.
(YLENES (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
JS. NIOSH: Pocket Guide to Chemical	Hazards		
Components	Туре	Value	
ETHYLBENZENE (CAS 00-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
OLUENE (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
KYLENES (CAS 1330-20-7)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
JS. Workplace Environmental Exposu	re Level (WEEL) Guides		
Components	Туре	Value	
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (CAS 108-65-6)	TWA	50 ppm	

# **Biological limit values**

ACGIH Biological Expos Components	sure Indices Value	Determinant	Specimen	Sampling Time	
ETHYLBENZENE (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*	

ACGIH Biological Exposu Components	re Indices Value	Determinant	Specimen	Sampling Time
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	*
Toluene-2,4-diisocyanate (CAS 584-84-9)	5 μg/g	Toluene diamine (sum of 2,4- and 2,6-isomers), with hydrolysis	Creatinine in urine	*
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

PROPYLENE GLYCOL MONOMETHYL ETHER

ACETATE (CAS 108-65-6)

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

US - Minnesota Haz Subs: Skin designation applies

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

US ACGIH Threshold Limit Values: Skin designation

Toluene-2,4-diisocyanate (CAS 584-84-9)

Can be absorbed through the skin.

Can be absorbed through the skin.

Skin designation applies.

9) Can be absorbed through the skin.

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. Provide eyewash station and safety shower.

#### 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

Observe any medical surveillance requirements. When using do not 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.
Color Clear

Odor Aromatic

Odor threshold Not available.
pH Does not apply.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point  $44.6 \, ^{\circ}\text{F} \, (7.0 \, ^{\circ}\text{C})$ 

Evaporation rate 0.3 BuAc

Material name: HumiSeal 2A64 Part B

SDS US

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

(%)

Flammability limit - upper

Flammability limit - lower

(%)

Not available.

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 6.49 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Negligible

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity60 - 200 cPViscosity temperature77 °F (25 °C)

Other information

Brookfield viscosity 60 - 200 cP

Density 1.11 g/cm3

Explosive properties Not explosive.

Miscible (water) Negligible

Oxidizing properties Not oxidizing.

Percent volatile 40 - 44 % v/v

Specific gravity 1.11

Specific gravity 1.11

VOC 501 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.

reactions

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents. Halogens.

Hazardous decomposition No hazardous decomposition products are known.

products

### 11. Toxicological information

Information on likely routes of exposure

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

may be harmful.

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

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

Material name: HumiSeal 2A64 Part B

Product	Species	Test Results	
HumiSeal 2A64 Part B			
<u>Acute</u>			
Dermal			
LD50	Rabbit	783 ml/kg estimated	
		648 g/kg estimated	
Inhalation			
LC50	Guinea pig	3133 mg/l, 4 Hours estimated	
	Mouse	58860 mg/l, 6 Hours estimated	
		22220 ppm, 24 Hours estimated	
		2410 mg/l, 4 Hours estimated	
	Rabbit	2651 mg/l estimated	
	Rat	3259 mg/l, 4 Hours estimated	
Oral			
LD50	Mouse	23950 mg/kg estimated	
	Rat	45610 mg/kg estimated	
Components	Species	Test Results	
ETHYLBENZENE (CAS 100-41	-4)		
<u>Acute</u>			
Dermal	D 11.7	(7000 II	
LD50	Rabbit	17800 mg/kg	
Oral	D-4	0500	
LD50	Rat	3500 mg/kg	
TOLUENE (CAS 108-88-3)			
<u>Acute</u> Dermal			
LD50	Rabbit	12120 mg/kg	
Oral	Rabbit	12123 mg/ng	
LD50	Rat	2.6 g/kg	
Toluene-2,4-diisocyanate (CAS	584-84-9)	3 3	
Acute			
<u>Inhalation</u>			
LC50	Rat	14 mg/l, 4 Hours	
Oral			
LD50	Rat	5800 mg/kg	
XYLENES (CAS 1330-20-7)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 43 g/kg	
Inhalation	_		
LC50	Rat	6350 mg/l, 4 Hours	
Oral	D 4	0.500 0000 #	
LD50	Rat	3523 - 8600 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may ca		
Serious eye damage/eye irritation			
Respiratory or skin sensitizat	ion		
ACGIH sensitization			
TOLUENE-2,4-DIISOC AND VAPOR (CAS 58	CYANATE, INHALABLE FRACTION	I Dermal sensitization	
AND VAPOR (CAS SO	<del></del>	Respiratory sensitization	

Respiratory sensitization

Material name: HumiSeal 2A64 Part B

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

Skin sensitization May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Suspected of causing cancer. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

ETHYLBENZENE (CAS 100-41-4) 2B Possibly carcinogenic to humans.

**TOLUENE (CAS 108-88-3)** 3 Not classifiable as to carcinogenicity to humans.

Toluene-2,4-diisocyanate (CAS 584-84-9) 2B Possibly carcinogenic to humans.

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Toluene-2,4-diisocyanate (CAS 584-84-9) Reasonably Anticipated to be a Human Carcinogen.

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

laboratory animals. Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful. Prolonged exposure may cause chronic effects.

# 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Product		Species	Test Results
HumiSeal 2A64 Part E	3		
Aquatic			
Crustacea	EC50	Daphnia	261.1914 mg/l, 48 hours estimated
Fish	LC50	Fish	556.1183 mg/l, 96 hours estimated
Components		Species	Test Results
ETHYLBENZENE (CA	S 100-41-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
TOLUENE (CAS 108-	88-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
Toluene-2,4-diisocyan	ate (CAS 584-84-9	)	
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	108.8 - 240.4 mg/l, 96 hours
XYLENES (CAS 1330	-20-7)		
Aquatic			

Fish LC50 Bluegill (Lepomis macrochirus) 7.711 - 9.591 mg/l, 96 hours

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

**ETHYLBENZENE** 3.15 **TOLUENE** 2.73 **XYLENES** 3.12 - 3.2

No data available. Mobility in soil

Material name: HumiSeal 2A64 Part B

SDS US

HumiSeal 2A64 Part B Version #: 03 Revision date: 08-17-2018 Issue date: 06-23-2015

The product contains volatile organic compounds which have a photochemical ozone creation

potential.

# 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

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

disposal company.

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

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

disposal.

# 14. Transport information

#### DOT

UN number UN1263 UN proper shipping name PAINT

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group

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

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

Packaging exceptions 150
Packaging non bulk 173
Packaging bulk 242

**IATA** 

UN number UN1263 UN proper shipping name PAINT

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
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

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN number UN1263 UN proper shipping name PAINT

Transport hazard class(es)

Class 3
Subsidiary risk Packing group ||
Environmental hazards

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

Material name: HumiSeal 2A64 Part B

SDS US

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

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.

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

Toluene-2,4-diisocyanate (CAS 584-84-9) 0.1 % One-Time Export Notification only.

**TSCA Chemical Action Plans, Chemicals of Concern** 

Toluene-2,4-diisocyanate (CAS 584-84-9)

Toluene Diisocyanate (TDI) And Related Compounds Action Plan

[RIN 2070-ZA14]

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

ETHYLBENZENE (CAS 100-41-4) Listed.
TOLUENE (CAS 108-88-3) Listed.
Toluene-2,4-diisocyanate (CAS 584-84-9) Listed.
XYLENES (CAS 1330-20-7) Listed.

SARA 304 Emergency release notification

Toluene-2,4-diisocyanate (CAS 584-84-9) 100 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)	
Toluene-2.4-diisocyan	584-84-9	100	500			

ate

SARA 311/312 Hazardous chemical

ırdous Yes

Classified hazard

categories

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure) Respiratory or skin sensitization

Carcinogenicity
Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Material name: HumiSeal 2A64 Part B

SDS US

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#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
ETHYLBENZENE	100-41-4	< 1	
TOLUENE	108-88-3	1 - < 3	
Toluene-2,4-diisocyanate	584-84-9	< 1	
XYLENES	1330-20-7	5 - < 10	

#### Other federal regulations

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

ETHYLBENZENE (CAS 100-41-4)

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

Toluene-2,4-diisocyanate (CAS 584-84-9)

XYLENES (CAS 1330-20-7)

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

Toluene-2,4-diisocyanate (CAS 584-84-9)

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**

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

# **US** state regulations

### **California Proposition 65**



WARNING: This product can expose you to chemicals including ETHYLBENZENE, which is known to the State of California to cause cancer, and TOLUENE, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004 Toluene-2,4-diisocyanate (CAS 584-84-9) Listed: October 1, 1989

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

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

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

ETHYLBENZENE (CAS 100-41-4)

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

Toluene-2,4-diisocyanate (CAS 584-84-9)

XYLENES (CAS 1330-20-7)

#### International Inventories

Inventory name	On inventory (yes/no)*
Australian Inventory of Chemical Substances (AICS)	Yes
Domestic Substances List (DSL)	Yes
Non-Domestic Substances List (NDSL)	No
Inventory of Existing Chemical Substances in China (IECSC)	Yes
European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
European List of Notified Chemical Substances (ELINCS)	No
Inventory of Existing and New Chemical Substances (ENCS)	Yes
Existing Chemicals List (ECL)	Yes
New Zealand Inventory	Yes
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan Chemical Substance Inventory (TCSI)	Yes
	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances (PICCS)

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On inventory (yes/no)\* Country(s) or region Inventory name

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

\*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).

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

Issue date 06-23-2015 **Revision date** 08-17-2018

Version # 03

**HMIS®** ratings Health: 2\*

Flammability: 4 Physical hazard: 0

**NFPA** ratings Health: 2

Flammability: 4 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.

This document has undergone significant changes and should be reviewed in its entirety. **Revision information** 

Material name: HumiSeal 2A64 Part B SDS US