

SAFETY DATA SHEET

1. Identification

Product identifier HumiSeal 1A33

Other means of identification

Product code AF0000-84
Synonyms HUM 1A33

Recommended use Protective Coating for Printed Circuit Board

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name CHASE CORPORATION Zeta Drive Plant

Address 201 Zeta Drive

Pittsburgh, Pennsylvania 15238

United States

Telephone 1-866-932-0800

E-mail techsupport@humiseal.com

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

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

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2Reproductive toxicityCategory 2Specific target organ toxicity, repeated exposureCategory 2

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H402 Harmful to aquatic life.

Material name: HumiSeal 1A33

Harmful to aquatic life with long lasting effects. H412

Precautionary statement

Prevention	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist/vapors.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303 + P361 + P353 P305 + P351 +	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
F330	easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: Get medical advice/attention.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.
1370 11370	in case of me. Ose appropriate module to often guiern.

Storage

Store in a well-ventilated place. Keep cool. P403 + P235 Store locked up. P405

Disposal

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

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

43.2% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 43.2% 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	%
Xylene		1330-20-7	30 - < 40
Butanone		78-93-3	5 - < 10
Ethylbenzene		100-41-4	5 - < 10
Toluene		108-88-3	5 - < 10
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich		68515-49-1	<1
2-octyl-2H-isothiazol-3-one		26530-20-1	< 0.1

4. First-aid measures

Inhalation	Move to fresh air	Call a physician	if symptoms	develop or persist.
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Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation Skin contact

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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

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

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

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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 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

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. 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/vapors. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. 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.

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. 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. Use appropriate containment to avoid environmental

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contamination.

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. 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/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices

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. Eliminate sources of ignition. Avoid spark promoters. 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 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.

US. OSHA Table Z-1 Permissible Components	Exposure Limits (PEL) for Air Type	Contaminants (29 CFR 1910.1000) Value	
Butanone (CAS 78-93-3)	PEL	590 mg/m3	
		200 ppm	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	
US. OSHA Table Z-2 Permissible	Exposure Limits (PEL) (29 CF	R 1910.1000)	
Components	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Value	es (TLV)		
Components	Type	Value	
Butanone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	TWA	20 ppm	
NIOSH. Immediately Dangerous t	to Life or Health (IDLH) Values	, as amended	
Components	Type	Value	
Butanone (CAS 78-93-3)	IDLH	1.4 %	
		3000 ppm	

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NIOSH. Immediately Dangerous t Components	o Life or Health (IDLH) Values Type	, as amended Value	
Ethylbenzene (CAS 100-41-4)	IDLH	0.8 %	
		800 ppm	
Toluene (CAS 108-88-3)	IDLH	1.1 %	
		500 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL) Components Type

Components	туре	value	
Butanone (CAS 78-93-3)	STEL	885 mg/m3	
		300 ppm	
	TWA	590 mg/m3	
		200 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	

Biological limit values

ACGIH Biological Exposure Indices (BEI)

Components	Value (DEI)	Determinant	Specimen	Sampling Time
Butanone (CAS 78-93-3)	2 mg/l	MEK	Urine	*
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	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	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Can be absorbed through the skin. Toluene (CAS 108-88-3)

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 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.

Material name: HumiSeal 1A33 SDS US 5 / 12 Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

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

Thermal hazards Not applicable.

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.

9. Physical and chemical properties

Appearance

Physical state Liquid. **Form** Liquid. Color Clear. Odor Aromatic Odor threshold Not available. Hq Does not apply.

Melting point/freezing point -138.82 °F (-94.9 °C) estimated Initial boiling point and boiling 175.26 °F (79.59 °C) estimated

range

Flash point 48.2 °F (9.0 °C) Closed Cup

21.2 °F (-6.0 °C) estimated

3.6 BuAc **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits 1.2 % estimated

Explosive limit - lower (%)

1 %

11.4 % estimated Explosive limit - upper (%)

24.6 hPa estimated Vapor pressure

Not available. Vapor density Not available. Relative density

Solubility(ies)

Negligible Solubility (water) Partition coefficient Not available.

(n-octanol/water)

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

Not available. **Decomposition temperature** > 110 - < 140 cP **Viscosity** Viscosity temperature 104 °F (40 °C)

Other information

> 160 - < 200 cP **Brookfield viscosity** 0.95 g/cm3 Density

0.86 g/cm3 estimated

Not explosive. **Explosive properties**

Flammable IB estimated Flammability class

Negligible Miscible (water) Not oxidizing. Oxidizing properties Percent volatile 55.39 % estimated

Specific gravity 0.95

0.86 estimated

VOC 55.39 % estimated

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

flash point. Contact with incompatible materials.

Strong acids. Strong oxidizing agents. Amines. Ammonia. Caustics. Halogens. Isocyanates. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Causes serious eye irritation. Eye contact

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not known.

Product Species		Test Results
HumiSeal 1A33		
<u>Acute</u>		
Dermal		
LD50	Rabbit	59622 mg/kg
Inhalation		
LC50	Rat	17673 mg/l, 4 Hours
Oral		
LD50	Rat	6877 mg/kg
Components	Species	Test Results

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (CAS 68515-49-1)

Acute Dermal

LD50 Rabbit > 3160 mg/kg

2-octyl-2H-isothiazol-3-one (CAS 26530-20-1)

Acute

Inhalation

LC50 270 mg/m3, 4 Hours

Oral

LD50 Rat 125 mg/kg

Butanone (CAS 78-93-3)

Acute

Dermal

LD50 Rabbit 8054 mg/kg

Inhalation

Vapor

LC50 Rat 34 mg/l, 4 hours

Oral

LD50 Rat 2193 mg/kg

2054 mg/kg

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Components Species Test Results

Ethylbenzene (CAS 100-41-4)

<u>Acute</u>

Dermal

LD50 Rabbit 15400 mg/kg

Inhalation

Vapor

LC50 Rat 17.63 mg/l, 4 hours

Oral

LD50 Rat 3500 mg/kg

Toluene (CAS 108-88-3)

<u>Acute</u>

Dermal

LD50 Rabbit > 5000 mg/kg

> 5000 mg/kg, 24 Hours

Inhalation

Vapor

LC50 Rat > 20 mg/l, 4 hours

Oral

LD50 Rat > 5000 mg/kg

Xylene (CAS 1330-20-7)

Acute

Dermal

LD50 Rabbit 12130 mg/kg, 24 Hours

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

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 Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Material name: HumiSeal 1A33

Product		Species	lest Results
HumiSeal 1A33			
Aquatic			
Crustacea	EC50	Daphnia	43.3501 mg/l, 48 hours
Fish	LC50	Fish	104.9113 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia	9.975 mg/l, 48 hours estimated
Fish	LC50	Fish	6.676 mg/l, 96 hours estimated
Components		Species	Test Results
Ethylbenzene (CAS 100	0-41-4)		
Aquatic			
Acute			
Crustacea	EC50	Daphnia	1.8 mg/l, 48 hours
		Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fish	4.2 mg/l, 96 hours
Toluene (CAS 108-88-3	3)		
Aquatic			
Acute			
Crustacea	EC50	Invertebrates (Invertebrates)	3.78 mg/l, 48 hours
Fish	LC50	Fish	5.5 mg/l, 96 hours
Xylene (CAS 1330-20-7	7)		
Aquatic			
Acute			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	6.702 - 10.032 mg/l, 96 hours

Species

Test Results

Persistence and degradability

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

Bioaccumulative potential

Product

Partition coefficient n-octanol / water (log Kow)

Butanone (CAS 78-93-3) 0.29 Ethylbenzene (CAS 100-41-4) 3.15 2.73 Toluene (CAS 108-88-3)

Mobility in soil No data available.

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

potential.

13. Disposal considerations

Disposal instructions Dispose of this material and its container to hazardous or special waste collection point. 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

D035: Waste Methyl ethyl ketone

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

Material name: HumiSeal 1A33 SDS US 9 / 12 UN proper shipping name **PAINT**

Transport hazard class(es)

3 **Class** Subsidiary hazard Label(s) 3 Ш Packing group **Environmental hazards**

Marine pollutant No.

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 hazard 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 with restrictions.

Allowed with restrictions.

IMDG

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

Transport hazard class(es)

Class 3 Subsidiary hazard Ш Packing group **Environmental hazards**

Marine pollutant

No. F-E, S-E **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

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

the IBC Code

DOT



Material name: HumiSeal 1A33 SDS US



15. Regulatory information

US federal regulations

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

Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory

or are designated "inactive".

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Butanone (CAS 78-93-3) Listed. Ethylbenzene (CAS 100-41-4) Listed. Toluene (CAS 108-88-3) Listed. Xylene (CAS 1330-20-7) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation

Serious eye damage or eye irritation

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Hazard not otherwise classified (HNOC)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Ethylbenzene	100-41-4	5 - < 10	
Toluene	108-88-3	5 - < 10	
Xylene	1330-20-7	30 - < 40	

Other federal regulations

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

Ethylbenzene (CAS 100-41-4) Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7)

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

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

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

Butanone (CAS 78-93-3) 6714 Toluene (CAS 108-88-3) 6594

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

Butanone (CAS 78-93-3) 35 %WV Toluene (CAS 108-88-3) 35 %WV

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DEA Exempt Chemical Mixtures Code Number

Butanone (CAS 78-93-3) 6714 Toluene (CAS 108-88-3) 594

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Butanone (CAS 78-93-3) Low priority

US state regulations

California Proposition 65



Toluene (CAS 108-88-3)

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.

Listed: January 1, 1991

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004

California Proposition 65 - CRT: Listed date/Developmental toxin

1,2-Benzenedicarboxylic acid, di-C9-11-branched

Listed: April 20, 2007 alkyl esters, C10-rich (CAS 68515-49-1)

International Inventories

New Zealand

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

Philippine Inventory of Chemicals and Chemical Substances **Philippines** (PICCS)

Yes

No

No

Taiwan Taiwan Chemical Substance Inventory (TCSI) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

New Zealand Inventory

No

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

02-21-2022 Issue date **Revision date** 04-04-2024

Version # 12

Health: 2* **HMIS®** ratings

Flammability: 3 Physical hazard: 0

NFPA ratings Health: 2

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.

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

Material name: HumiSeal 1A33 12 / 12

^{*}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).