HumiSeal[®]

White Goods

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SAFETY DATA SHEET

1. Identification

Product identifier	HumiSeal 2A53 Part B
Other means of identification	
Product code	CO0000-1109
Recommended use	Protective Coating for Printed Circuit Board
Recommended restrictions	No other uses are advised.
Manufacturer/Importer/Supplier/	Distributor information

Manufacturer

Company name Address	CHASE CORPORATION Z 201 Zeta Drive Pittsburgh, Pennsylvania 1 United States	
Telephone	1-866-932-0800	
E-mail	techsupport@humiseal.con	ו
Emergency phone number	1-800-424-9300 (+1)703-527-3887	Chemtrec, US Chemtrec, outside of US

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Carcinogenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	
H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.

H412	Harmful to aquatic life with long lasting effects.
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.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	
P303 + P361 +	
P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 +	
P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P333 + P313	If skin irritation or rash occurs: 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.
Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	
P501	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	12.55% of the mixture consists of component(s) of unknown acute dermal toxicity. 40.21% of the mixture consists of component(s) of unknown acute inhalation toxicity. 45.39% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 45.39% 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
Ethylbenzene		100-41-4	5 - < 10
n-butanol		71-36-3	5 - < 10
Propan-2-ol		67-63-0	5 - < 10
Triethylenetetramine		112-24-3	< 1

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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 immediately.
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. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

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. Wash contaminated clothing before reuse.
Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Do not use water jet as an extinguisher, as this will spread the fire.
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.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
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. 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. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

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/vapors. Do not get this material in contact with eyes. 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. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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).
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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	
		100 ppm	
n-butanol (CAS 71-36-3)	PEL	300 mg/m3	
		100 ppm	
Propan-2-ol (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
n-butanol (CAS 71-36-3)	TWA	20 ppm	
Propan-2-ol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Xylene (CAS 1330-20-7)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
n-butanol (CAS 71-36-3)	Ceiling	150 mg/m3	
		50 ppm	
Propan-2-ol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
Xylene (CAS 1330-20-7)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	
Triethylenetetramine (CAS 112-24-3)	TWA	6 mg/m3	
		1 ppm	

Biological limit values

ACGIH Biological Exposu 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	*
Propan-2-ol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
* - For sampling details, ple	ase see the source doo	cument.		
cposure guidelines				
US - California OELs: Skir	n designation			
n-butanol (CAS 71-36-			absorbed throug	gh the skin.
US - Minnesota Haz Subs	• · ·			
n-butanol (CAS 71-36-3 US - Tennessee OELs: Sk		Skin de	esignation applies	S.
n-butanol (CAS 71-36- US NIOSH Pocket Guide t	,		absorbed throug	gh the skin.
n-butanol (CAS 71-36- US WEEL Guides: Skin de		Can be	absorbed throug	gh the skin.
Triethylenetetramine (C	CAS 112-24-3)	Can be	absorbed throug	gh the skin.
opropriate engineering ontrols	Ventilation rates sh exhaust ventilation exposure limits. If e	ould be matched to , or other engineerir	conditions. If ap ng controls to ma e not been establi	Good general ventilation should be used. plicable, use process enclosures, local intain airborne levels below recommended ished, maintain airborne levels to an hower.
dividual protection measure	s, such as personal p	orotective equipme	nt	
Eye/face protection	Chemical respirato	r with organic vapor	cartridge and fu	ll facepiece.
Skin protection				
Hand protection	Wear appropriate of	chemical resistant g	oves.	
Other	Wear appropriate o	chemical resistant cl	othing. Use of ar	n impervious apron is recommended.
Respiratory protection	Chemical respirato	r with organic vapor	cartridge and ful	Il 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Not available.
Color	Clear.
Odor	Aromatic
Odor threshold	Not available.
pН	Does not apply.
Melting point/freezing point	-138.82 °F (-94.9 °C) estimated
Initial boiling point and boiling range	246.2 °F (119 °C) estimated
Flash point	59.0 °F (15.0 °C)
Evaporation rate	1.7 BuAc
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Explosive limit - lower (%)	1 % estimated
Explosive limit - upper (%)	6.8 % estimated
Vapor pressure	15.12 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Negligible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	649.4 °F (343 °C) estimated
Decomposition temperature	Not available.
Viscosity	30 - 60 cP
Viscosity temperature	77 °F (25 °C)
Other information	
Brookfield viscosity	30 - 60 cP
Density	0.89 g/cm3
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	51 - 56 %
Specific gravity	0.85 estimated
VOC	521 g/l estimated
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 reactions	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.
Incompatible materials Hazardous decomposition	

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	Not known.	Not known. Species Test Results	
Product	Species		
HumiSeal 2A53 Part B			
<u>Acute</u>			
Dermal			
LD50	Rabbit	30930 mg/kg	
Inhalation			
LC50	Rat	17850 mg/l, 4 Hours	
Oral			
LD50	Rat	4425 mg/kg	
Components	Species	Test Results	
Ethylbenzene (CAS 100-4	1-4)		
Acute			
Dermal	Dabbit	45400 mm//m	
LD50	Rabbit	15400 mg/kg	
Inhalation			
<i>Vapor</i> LC50	Rat	17.63 mg/l, 4 hours	
Oral		17.00 High, 4 Hours	
LD50	Rat	3500 mg/kg	
n-butanol (CAS 71-36-3)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	3430 mg/kg, 24 Hours	
Propan-2-ol (CAS 67-63-0))		
Acute			
Inhalation			
LC50	Rat	51.05 mg/l, 8 Hours	
Oral			
LD50	Rat	4710 mg/kg	
Triethylenetetramine (CAS	6 112-24-3)		
<u>Acute</u>			
Dermal		4405	
LD50	Rat	1465 mg/kg	
Oral	D.4	4740	
LD50	Rat	1716 mg/kg	
Xylene (CAS 1330-20-7)			
<u>Acute</u> Dermal			
LD50	Rabbit	12130 mg/kg, 24 Hours	
Oral	Nabbit	12100 mg/kg, 24 mours	
LD50	Rat	3523 mg/kg	

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Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	1
Respiratory sensitization	Not a respiratory sensitizer.
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.
Carcinogenicity	Suspected of causing cancer.
IARC Monographs. Overall I	Evaluation of Carcinogenicity
, , ,	, , , , , , , , , , , , , , , , , , , ,
Not listed.	ogram (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.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.

12. Ecological information

toxicity	Harmful t	o aquatic life with long lasting effects.	
Product		Species	Test Results
HumiSeal 2A53 Part E	3		
Aquatic			
Crustacea	EC50	Daphnia	32.2004, 48 hours
Fish	LC50	Fish	54.0054, 96 hours
Acute			
Algae	EC50	Algae	322.0752, 96 hours estimated
Crustacea	EC50	Daphnia	10.2461, 48 hours estimated
Fish	LC50	Fish	7.0877, 96 hours estimated
Components		Species	Test Results
Ethylbenzene (CAS 10	00-41-4)		
Aquatic			
Acute			
Crustacea	EC50	Daphnia	1.8, 48 hours
		Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fish	4.2, 96 hours
n-butanol (CAS 71-36	-3)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	1897 - 2072 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	100 - 500 mg/l, 96 hours
Propan-2-ol (CAS 67-	63-0)		
Aquatic			
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours

Components		Species	Test Results
Triethylenetetramine (CAS 11	2-24-3)		
Aquatic			
Acute			
Algae	EC50	Algae	3.7, 96 hours
Crustacea	LC50	Daphnia	33.9, 48 hours
Xylene (CAS 1330-20-7)			
Aquatic			
Acute			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	6.702 - 10.032 mg/l, 96 hours
Persistence and degradability	No data is ava	ilable on the degradability of any ingredien	ts in the mixture.
Bioaccumulative potential			
Partition coefficient n-octan Ethylbenzene (CAS 100-41-4) n-butanol (CAS 71-36-3) Propan-2-ol (CAS 67-63-0)			
Mobility in soil	No data available.		
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
13. Disposal consideration	ions		
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 acc	cordance 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			

DO	т	
	UN number	UN1263
	UN proper shipping name	PAINT
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Label(s)	3
	Packing group	II
	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
IAT	A	
	UN number	UN1263
	UN proper shipping name	PAINT
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Packing group	П
	Environmental hazards	No.

FRG Code Special procentions for user aircraft aircraft Cargo affictant only UN number Allowed with restrictions. UW UN proper shipping name PAINT Transport hazard classes Subidiary risk Subidiary risk Subidiary risk Free Special procentions of user Transport halk according to the IBC Code OT UN number UN number UN number UN number UN number UN number UN number Transport halk according to Not established. Marine pollutant Hold Computer Special procentions for user Transport halk according to Annex 1 of MARPOL 7378 and the IBC Code UT Not established. Marine pollutant Hold Computer Special procentions for user Transport halk according to Annex 1 of MARPOL 7378 and the IBC Code UT Not established. VATA: IMDG Not established. Jane All regulation Transport halk according to Annex 1 of MARPOL 7378 and the IBC Code UT This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard. 20 CFR 1910.1200. Totic Substances Control Act (TSCA) Totic Substances Control Act (TSCA) Core or more components of the mixture are not on the TSCA 8(b) inventory or are degulated. TSCA Section 12(b) Export Notification (40 CFR 707, SubpL D) Not regulated. Listed haland. SARA 34 Demographically Regulated Substances (23 CFR 1910.100- or are degulated. Listed haland. SARA 34 Demographically Regulated Substances (23 CFR 1910.100.1053) Not taked. Listed haland.			
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Image: Standard 29 CFR 1910.1001-1053			
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Not listed.		Substances (29 CFR 1910.10	01-1053)
	Not listed.		

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitization Carcinogenicity 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
n-butanol	71-36-3	5 - < 10
Propan-2-ol	67-63-0	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)

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)

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

n-butanol (CAS 71-36-3)	Low priority
Propan-2-ol (CAS 67-63-0)	Low priority

US state regulations

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

Ethylbenzene (CAS 100-41-4) n-butanol (CAS 71-36-3) Propan-2-ol (CAS 67-63-0) Xylene (CAS 1330-20-7)

California Proposition 65



WARNING: This product can expose you to Ethylbenzene, which is known to the State of California to cause cancer. 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
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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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)	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)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

Country(s) or region Inventory name

United States & Puerto Rico

*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).

Toxic Substances Control Act (TSCA) Inventory

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

Issue date	07-28-2023
Version #	01
HMIS® ratings	Health: 3* Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 3 Instability: 0
List of abbreviations	AICIS: Australian Inventory of Industrial Chemicals.
Disclaimer	The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, expressed or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.