

able F

Industrial Controls Electronics Autorative Electronics



SAFETY DATA SHEET

otic effects

Not available.

Disposal

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
XYLENES		1330-20-7	30 - < 40
ETHYLBENZENE		100-41-4	5 - < 10
TOLUENE		108-88-3	1 - < 3

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

4. First-aid measures

Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
Most important symptoms/effects, acute and delayed	Not available.

5. Fire-fighting measures

Suitable extinguishing media	Not available.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Not available.
Methods and materials for containment and cleaning up	Not available.
Environmental precautions	Not available.

7. Handling and storage

Precautions for safe handling	Not available.
Conditions for safe storage,	Not available.
including any incompatibilities	

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 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре `	Value	
ETHYLBENZENE (CAS 100-41-4)	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 Components	1000) Type	Value	
TOLUENE (CAS 108-88-3)	Ceiling	300 ppm	
10E0ENE (CAS 100-00-3)	TWA		
	IVVA	200 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm	
TOLUENE (CAS 108-88-3)	TWA	20 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	
		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	
XYLENES (CAS 1330-20-7)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
		••	

Biological limit values

Appropriate engineering

ACGIH Biological Exposure Indices

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	*
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	*
* - For sampling details, plea	ase see the source do	ocument.		
osure guidelines				
US - California OELs: Skir	n designation			
TOLUENE (CAS 108-8	,		absorbed throug	gh the skin.
US - Minnesota Haz Subs:	Skin designation ap	oplies		
TOLUENE (CAS 108-8	8-3)	Skin de	signation applies	S.

controls Individual protection measures, such as personal protective equipment

Not available.

nuiviuuai protection measu	ies, such as persona
Eye/face protection	Not available.
Skin protection	

Hand protection Not available.

Other	Not available.
Respiratory protection	Not available.
Thermal hazards	Not available.

9. Physical and chemical properties

	-
Appearance	
Physical state	Liquid.
Form	Not available.
Color	Clear
Odor	Aromatic
Odor threshold	Not available.
рН	Does not apply.
Melting point/freezing point	-138.82 °F (-94.9 °C) estimated
Initial boiling point and boiling range	276.98 °F (136.1 °C) estimated
Flash point	80.6 °F (27.0 °C)
Evaporation rate	0.6 BuAc
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	0.9 %
Flammability limit - upper (%)	6.8 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	11.05 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	810 °F (432.22 °C) estimated
Decomposition temperature	Not available.
Viscosity	1500 - 1900 cP
Viscosity temperature	77 °F (25 °C)
Other information	
Brookfield viscosity	1500 - 1900 cP
Density	0.96 g/cm3
Flammability class	Flammable IB estimated
Miscible (water)	Negligible
Percent volatile	49 - 55 % v/v
Specific gravity	0.96
VOC	489 g/l
10. Stability and reactivity	C C C C C C C C C C C C C C C C C C C
Reactivity	Not available.
Chemical stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Not available.

Not available.

Incompatible materials

11. Toxicological information

Information on likely routes of exposure		
Inhalation	Not available.	
Skin contact	Not available.	
Eye contact	Not available.	
Ingestion	Not available.	
Symptoms related to the physical, chemical and toxicological characteristics	Not available.	

Information on toxicological effects

Acute toxicity

Species	Test Results
Rabbit	653.8 ml/kg estimated
	112.8 g/kg estimated
Mouse	18550 ppm, 24 Hours estimated
	10250 mg/l, 6 Hours estimated
Rat	16660 mg/l, 4 Hours estimated
Mouse	4172 mg/kg estimated
Rat	7501 mg/kg estimated
Mouse	2474 mg/kg estimated
Rat	9.968 mg/kg estimated
Species	Test Results
,	
Rabbit	17800 mg/kg
Rat	3500 mg/kg
Rabbit	12120 mg/kg
Rat	2.6 g/kg
Rabbit	> 43 g/kg
Rat	6350 mg/l, 4 Hours
Rat	6350 mg/l, 4 Hours
	Mouse Rat Mouse Rat Species -4) Rabbit Rat Rat

Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory or skin sensitization	1	
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity		
IARC Monographs. Overall I	Evaluation of Carcinogenicity	
ETHYLBENZENE (CAS TOLUENE (CAS 108-88- XYLENES (CAS 1330-20 OSHA Specifically Regulate	3)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans. 001-1052)
Not regulated.		,
US. National Toxicology Pro	ogram (NTP) Report on Carcin	ogens
Not listed.		
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	

12. Ecological information

Ecotoxicity

Product		Species	Test Results
HumiSeal 1A27LU			
Aquatic			
Crustacea	EC50	Daphnia	41.6141 mg/l, 48 hours estimated
Fish	LC50	Fish	102.5855 mg/l, 96 hours estimated
Components		Species	Test Results
ETHYLBENZENE (CAS 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
XYLENES (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours
rsistence and degradability	Not available.		
oaccumulative potential	Not available.		
Partition coefficient n-octa	nol / water (log l	(ow)	
ETHYLBENZENE		3.15	
TOLUENE XYLENES		2.73 3.12 - 3.2	
obility in soil	Not available.	0.12 0.2	
her adverse effects	Not available.		
3. Disposal consideration	nns		
-	Not available.		
sposal instructions	NUL available.		

Waste from residues / unused products	Not available.
Contaminated packaging	Not available.
14. Transport information	
DOT	
UN number	UN1263
UN proper shipping name	PAINT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
-	3
Label(s) Packing group	
Special precautions for user	
	B1, B52, IB3, T2, TP1, TP29
Special provisions	
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1263
UN proper shipping name	PAINT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	3L
Special precautions for user	Not available.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
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	111
Environmental hazards	
Marine pollutant	No.
EmS	F-E, <u>S-E</u>
Special precautions for user	
Transport in bulk according to	Not available.
Annex II of MARPOL 73/78 and	Not available.
the IBC Code	
DOT	





15. Regulatory information

				
federal regulations				
TSCA Section 12(b) Export	Notification (40 CFF	R 707, Subpt. D)		
Not regulated.				
CERCLA Hazardous Substa	ance List (40 CFR 30)2.4)		
ETHYLBENZENE (CAS	100-41-4)	Listed.		
TOLUENE (CAS 108-88		Listed.		
XYLENES (CAS 1330-20		Listed.		
SARA 304 Emergency relea	se notification			
Not regulated.				
OSHA Specifically Regulate	ed Substances (29 C	FR 1910.1001-1052)		
Not regulated.				
perfund Amendments and Ro	eauthorization Act o	f 1986 (SARA)		
SARA 302 Extremely hazar		. ,		
Not listed.				
SARA 311/312 Hazardous	Yes			
chemical				
Classified hazard	Flammable (gases	, aerosols, liquids, or solids	;)	
categories	Skin corrosion or in		,	
0	Carcinogenicity			
	Reproductive toxic			
		an toxicity (single or repeat	eu exposure)	
	Aspiration hazard		ed exposure)	
SADA 212 (TPI reporting)	Aspiration hazard	ise classified (HNOC)	eu exposure)	
SARA 313 (TRI reporting)	Aspiration hazard	ise classified (HNOC)		
Chemical name	Aspiration hazard	ise classified (HNOC) CAS number	% by wt.	_
Chemical name ETHYLBENZENE	Aspiration hazard	ise classified (HNOC) CAS number 100-41-4	<mark>% by wt.</mark> 5 - < 10	_
Chemical name ETHYLBENZENE TOLUENE	Aspiration hazard	ise classified (HNOC) <u>CAS number</u> 100-41-4 108-88-3	% by wt. 5 - < 10 1 - < 3	_
Chemical name ETHYLBENZENE TOLUENE XYLENES	Aspiration hazard	ise classified (HNOC) CAS number 100-41-4	<mark>% by wt.</mark> 5 - < 10	_
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations	Aspiration hazard Hazard not otherw	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7	% by wt. 5 - < 10 1 - < 3	
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section	Aspiration hazard Hazard not otherw	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7	% by wt. 5 - < 10 1 - < 3	
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS	Aspiration hazard Hazard not otherw n 112 Hazardous Air 100-41-4)	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7	% by wt. 5 - < 10 1 - < 3	_
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88	Aspiration hazard Hazard not otherw 112 Hazardous Air 100-41-4) -3)	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7	% by wt. 5 - < 10 1 - < 3	_
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88 XYLENES (CAS 1330-20	Aspiration hazard Hazard not otherw 112 Hazardous Air 100-41-4) -3) 0-7)	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7 Pollutants (HAPs) List	% by wt. 5 - < 10 1 - < 3 30 - < 40	
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88 XYLENES (CAS 1330-20 Clean Air Act (CAA) Section	Aspiration hazard Hazard not otherw 112 Hazardous Air 100-41-4) -3) 0-7)	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7 Pollutants (HAPs) List	% by wt. 5 - < 10 1 - < 3 30 - < 40	_
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88 XYLENES (CAS 1330-20 Clean Air Act (CAA) Section Not regulated.	Aspiration hazard Hazard not otherw 100-41-4) -3) D-7) n 112(r) Accidental F	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7 Pollutants (HAPs) List	% by wt. 5 - < 10 1 - < 3 30 - < 40	_
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88 XYLENES (CAS 1330-20 Clean Air Act (CAA) Section	Aspiration hazard Hazard not otherw 112 Hazardous Air 100-41-4) -3) 0-7)	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7 Pollutants (HAPs) List	% by wt. 5 - < 10 1 - < 3 30 - < 40	_
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88 XYLENES (CAS 1330-20 Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA)	Aspiration hazard Hazard not otherw 100-41-4) -3) 0-7) n 112(r) Accidental F Not regulated.	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7 Pollutants (HAPs) List	% by wt. 5 - < 10 1 - < 3 30 - < 40 FR 68.130)	 d 1310.04(f)(2) and
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88 XYLENES (CAS 1330-20 Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) Drug Enforcement Adm	Aspiration hazard Hazard not otherw hazard not otherw hazard not otherw hazardous Air 100-41-4) -3) -7) n 112(r) Accidental F Not regulated. hinistration (DEA). L	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7 Pollutants (HAPs) List Release Prevention (40 Cl	% by wt. 5 - < 10 1 - < 3 30 - < 40 FR 68.130)	 d 1310.04(f)(2) and
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88 XYLENES (CAS 1330-20 Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) Drug Enforcement Adn Chemical Code Numbe TOLUENE (CAS 10	Aspiration hazard Hazard not otherw hazard not otherw 100-41-4) -3) 0-7) n 112(r) Accidental F Not regulated. hinistration (DEA). L r 8-88-3)	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7 Pollutants (HAPs) List Release Prevention (40 Cl ist 2, Essential Chemical	% by wt. 5 - < 10 1 - < 3 30 - < 40 FR 68.130) s (21 CFR 1310.02(b) an	
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88 XYLENES (CAS 1330-20 Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) Drug Enforcement Adn Chemical Code Numbe TOLUENE (CAS 10	Aspiration hazard Hazard not otherw 100-41-4) -3) D-7) h 112(r) Accidental F Not regulated. hinistration (DEA). L r 8-88-3) hinistration (DEA). L	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7 Pollutants (HAPs) List Release Prevention (40 Cl ist 2, Essential Chemical 6594	% by wt. 5 - < 10 1 - < 3 30 - < 40 FR 68.130) s (21 CFR 1310.02(b) an	
Chemical name ETHYLBENZENE TOLUENE XYLENES her federal regulations Clean Air Act (CAA) Section ETHYLBENZENE (CAS TOLUENE (CAS 108-88 XYLENES (CAS 1330-20 Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Numbe TOLUENE (CAS 10 Drug Enforcement Adm	Aspiration hazard Hazard not otherw hazard not otherw hazard not otherw hazard not otherw hazard not otherw hazardous Air 100-41-4) -3) 0-7) h 112(r) Accidental F Not regulated. hinistration (DEA). L 8-88-3) hinistration (DEA). L 8-88-3)	ise classified (HNOC) CAS number 100-41-4 108-88-3 1330-20-7 Pollutants (HAPs) List Release Prevention (40 Cl ist 2, Essential Chemical 6594 ist 1 & 2 Exempt Chemica 35 %WV	% by wt. 5 - < 10 1 - < 3 30 - < 40 FR 68.130) s (21 CFR 1310.02(b) an	

California Proposition 65

WARNING: This product can expose you to 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 California Proposition 65 - CRT: Listed date/Developmental toxin

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) XYLENES (CAS 1330-20-7)

TOLUENE (CAS 108-88-3)

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 (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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	05-17-2015
Revision date	08-10-2018
Version #	03
HMIS® ratings	Health: 3* Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
Disclaimer Revision information	Not available. This document has undergone significant changes and should be reviewed in its entirety.