

Automotive Electronics

Industrial Controls Electronics Renewable Energy Electronics



SAFETY DATA SHEET

Product identifier HumiSeal 1866 Other means of identification Protective Coating for Printed Circuit Board Recommended use Protective Coating for Printed Circuit Board Recommended restrictions None known. Manufacturer/Importer/Supplier/Distributor information Manufacturer/Importer/Supplier/Distributor information Manufacturer/Importer/Supplier/Distributor information Company name Company name CHASE CORPORATION Zeta Drive Plant Address 201 Zeta Drive Plitsburgh, Pennsylvania 15238 United States United States United States Telephone 1-866-932.0800 E-mail Not available. Emergency phone number 1400-424-9300 Chemtrec, US (+1)703-527-3887 Chemtrec, outside of US 2. Hazard(s) identification Category 3 Bealth hazards Skin corrosion/irritation Category 2 Specific target organ toxicity, single exposure Category 2 Specific target organ toxicity, repeated Category 2 Specific target organ toxicity, repeated Category 2 Aparadous to the aquatic environment, acute	1. Identification			
Product code HumiSeal 1866 Recommended use Protective Coating for Printed Circuit Board Recommended restrictions None known. Manufacturer/Importer/Supplier/Distributor information Manufacturer Company name CHASE CORPORATION Zeta Drive Plant Address 201 Zeta Drive Pittsburgh, Pennsylvania 15238 United States Telephone 1-806-932.0800 E-mail Not available. Emergency phone number 1-800-424-9300 Chemtrec, US (+1)703-527-3887 Chemtrec, outside of US Zategory 3 2. Hazard(s) identification Category 2 Serious eve damage/eve irritation Category 2 Physical hazards Flammable liquids Category 2 Serious eve damage/eve irritation Category 2 Specific target organ toxicity, single exposure Category 2 Specific target organ toxicity, repeated Category 2 Bruvironmental hazards Hazardous to the aquatic environment, acute Category 2 Category 2 Bruvironmental hazards None. Hazardous to the aquatic environment, acute Category 2 Bruvironmental hazards None. Signal word None. Signal word	Product identifier	HumiSeal 1B66		
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Storage Not available.	•	Not available.		
Storage Not available.		Not available.		
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3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Toluene		108-88-3	40 - < 50
METHYL ETHYL KETONE		78-93-3	10 - < 20

*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	

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	
METHYL ETHYL KETONE (CAS 78-93-3)	PEL	590 mg/m3	
		200 ppm	
US. OSHA Table Z-2 (29 CFR 191	0.1000)		
Components	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	

Components	Туре	•	Valu	a
METHYL ETHYL KETONE (CAS 78-93-3)	STEL	-	300	ppm
	TWA		200	ppm
Toluene (CAS 108-88-3)	TWA		20 p	opm
US. NIOSH: Pocket Guide Components	to Chemical Hazards Type		Valı	le
METHYL ETHYL KETONE (CAS 78-93-3)	STEL	-	885	mg/m3
			300	ppm
	TWA		590	mg/m3
			200	ppm
Toluene (CAS 108-88-3)	STEL	-	560	mg/m3
			150	ppm
	TWA		375	mg/m3
			100	ppm
ological limit values				
ACGIH Biological Exposu	re Indices			
Components	Value	Determinant	Specimen	Sampling Time
METHYL ETHYL KETONE (CAS 78-93-3)	2 mg/l	MEK	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	*
* - For sampling details, ple	ase see the source docu	ument.		
posure guidelines				
US - California OELs: Ski	-			
Toluene (CAS 108-88-	3)	Can be	e absorbed throug	h the skin.
US - Minnesota Haz Subs				
US - Minnesota Haz Subs Toluene (CAS 108-88-	Skin designation app	lies	esignation applies	
	Skin designation app	lies	esignation applies	
Toluene (CAS 108-88- propriate engineering ntrols lividual protection measure	: Skin designation app 3) Not available. s, such as personal pr	lies Skin d		
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Toluene (CAS 108-88- propriate engineering ntrols lividual protection measure Eye/face protection	: Skin designation app 3) Not available. s, such as personal pr	lies Skin d		

Respiratory protectionNot available.Thermal hazardsNot available.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Not available.
Color	Clear
Odor	Aromatic
Odor threshold	Not available.
рН	Do not apply.
Melting point/freezing point	-138.82 °F (-94.9 °C) estimated

Initial boiling point and boiling range	175.26 °F (79.59 °C) estimated
Flash point	84.2 °F (29.0 °C) Closed Cup
Evaporation rate	3.6 BuAc
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	1.6 %
Flammability limit - upper (%)	11.2 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	56.99 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	759.2 °F (404 °C) estimated
Decomposition temperature	Not available.
Viscosity	185 - 215 cP
Viscosity temperature	77 °F (25 °C)
Other information	
Brookfield viscosity	185 - 215 cP
Density	0.91 g/cm3
Flammability class	Flammable IB estimated
Miscible (water)	Do not apply.
Percent volatile	65 % estimated
Specific gravity	0.91
VOC	65 %
10. Stability and reactivity	
Reactivity	Not available.
Chemical stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Not available.
Incompatible materials	Not available.
Hazardous decomposition products	Not available.
11. Toxicological informat	ion
Information on likely routes of e	xposure
	NI CONTRACTOR

InhalationNot available.Skin contactNot available.Eye contactNot available.IngestionNot available.Symptoms related to theNot available.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
HumiSeal 1B66		
<u>Acute</u>		
Dermal		
LD50	Rabbit	17330 mg/kg estimated
		29 ml/kg estimated
Inhalation		
LC50	Mouse	76280 ppm, 45 Minutes estimated
		11060 ppm, 8 Hours estimated
		831 ppm, 24 Hours estimated
	Rat	55490 ppm, 1 Hours estimated
		25360 ppm, 2 Hours estimated
		13800 ppm, 4 Hours estimated
Oral		
LD50	Mouse	4646 mg/kg estimated
	Rat	5.4 g/kg estimated
Components	Species	Test Results
METHYL ETHYL KETONE (CAS	78-93-3)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 8000 mg/kg
Oral		
LD50	Rat	2300 - 3500 mg/kg
Toluene (CAS 108-88-3)		
Acute		
Dermal	DULY	
LD50	Rabbit	12120 mg/kg
Oral	D.1	
LD50	Rat	2.6 g/kg
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity		
IARC Monographs. Overall	Evaluation of Carcinogen	icity
Toluene (CAS 108-88-3)		3 Not classifiable as to carcinogenicity to humans.
OSHA Specifically Regulate	ed Substances (29 CFR 19	910.1001-1052)
Not regulated.		
US. National Toxicology Pr	ogram (NTP) Report on C	arcinogens
Not listed.	Not available	
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	

12. Ecological information

Ecotoxicity

Ecotoxicity			
Product		Species	Test Results
HumiSeal 1B66			
Aquatic			
Crustacea	EC50	Daphnia	21.2298 mg/l, 48 hours estimated
Fish	LC50	Fish	181.832 mg/l, 96 hours estimated
Components		Species	Test Results
METHYL ETHYL KETONE (CAS 78-93-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	> 400 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
Persistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Partition coefficient n-octa	nol / water (log l	Kow)	
METHYL ETHYL KETONE		0.29	
Toluene		2.73	
Mobility in soil	Not available.		
Other adverse effects	Not available.		
13. Disposal consideration			
Disposal instructions	Not available.		
Waste from residues / unused products	Not available.		
Contaminated packaging	Not available.		
14. Transport information	า		
DOT			
UN number	UN1263		
UN proper shipping name	PAINT		
Transport hazard class(es)			
Class	3		
Subsidiary risk Label(s)	- 3		
Packing group	UI		
Special precautions for us			
Special provisions		, T7, TP1, TP8, TP28	
Packaging exceptions	150		
Packaging non bulk	202		
Packaging bulk IATA	242		
UN number	UN1263		
UN proper shipping name	PAINT		
Transport hazard class(es)			
Class	3		
Subsidiary risk	-		
Packing group	III		
Environmental hazards	No.		
ERG Code	3H		
Special precautions for us	er not available.		



SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

Listed.

Listed.

Classified hazard categories	Acute toxicity (any rou Skin corrosion or irrita Serious eye damage o Reproductive toxicity	tion or eye irritation oxicity (single or repeate		
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Toluene		108-88-3	40 - < 50	
Other federal regulations				
Clean Air Act (CAA) Secti		ollutants (HAPs) List		
Toluene (CAS 108-88- Clean Air Act (CAA) Secti		ease Prevention (40 CF	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
Drug Enforcement Ac Chemical Code Numb		2, Essential Chemicals	s (21 CFR 1310.02(b) and	1310.04(f)(2) and
METHYL ETHYL F Toluene (CAS 108	KETONE (CAS 78-93-3) 3-88-3)	6714 6594		
Drug Enforcement Ac	Iministration (DEA). List	1 & 2 Exempt Chemica	al Mixtures (21 CFR 1310.	12(c))
	(ETONE (CAS 78-93-3)	35 %WV		
Toluene (CAS 108	,	35 %WV		
•	al Mixtures Code Number (ETONE (CAS 78-93-3)	6714		
Toluene (CAS 108		594		
•		and Safety in the Flav	or Manufacturing Workpl	ace
METHYL ETHYL F	KETONE (CAS 78-93-3)	Low priority		
US state regulations				
California Proposition 65				
			known to the State of Califormation go to www.P65War	
California Proposition	n 65 - CRT: Listed date/D	evelopmental toxin		
Toluene (CAS 108 US. California. Candio subd. (a))		Listed: Januar Fr Consumer Products	ry 1, 1991 Regulations (Cal. Code F	Regs, tit. 22, 69502.3,
	KETONE (CAS 78-93-3) 3-88-3)			
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of	f Chemical Substances	(AICS)	Yes
Canada	Domestic Substances	List (DSL)		Yes
Canada	Non-Domestic Substa	nces List (NDSL)		No
China	Inventory of Existing C	Chemical Substances in	China (IECSC)	Yes
Europe	European Inventory of Substances (EINECS)	f Existing Commercial C)	hemical	Yes
Europe	European List of Notifi	ied Chemical Substance	es (ELINCS)	No
Japan	Inventory of Existing a	nd New Chemical Subs	tances (ENCS)	Yes
Korea	Existing Chemicals Lis	st (ECL)		Yes
New Zealand	New Zealand Inventor	у		Yes
Philippines	Philippine Inventory of (PICCS)	f Chemicals and Chemic	cal Substances	Yes
Taiwan	Taiwan Chemical Sub	stance Inventory (TCSI))	Yes

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	08-15-2014
Revision date	08-10-2018
Version #	05
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.