

Issue date 04-Apr-2019

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Revision Number 2

1. IDENTIFICATION

Product identification

Product identifier	Kent® Panel Adhesive - 2:1 - Part A
Other means of identification	KT12638A
Recommended use	Adhesive
Restrictions on use	For industrial use only

Supplier

Corporate Headquarters:
Kent Automotive
8770 W. Bryn Mawr Ave.- Suite 900
Chicago, IL 60631
(888)-937-5368

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

Website <https://www.lawsonproducts.com>

2. HAZARD(S) IDENTIFICATION

Hazard Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation	Category 4
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

Symbol



Signal word

DANGER

Hazard statements	H301 - Toxic if swallowed H312 - Harmful in contact with skin H332 - Harmful if inhaled H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H341 - Suspected of causing genetic defects H335 - May cause respiratory irritation H373 - May cause damage to organs through prolonged or repeated exposure
Precautionary statements	
Prevention	P260 - Do not breathe dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves/protective clothing and eye/face protection P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing should not be allowed out of the workplace P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood
Response	
General	P321 - For Specific treatment see section 4 of this sds P314 - Get medical advice/attention if you feel unwell. P312 - Call a POISON CENTER or doctor if you feel unwell
Eyes	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Skin	P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P363 - Wash contaminated clothing before reuse P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse
Inhalation	P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P308 + P313 - IF exposed or concerned: Get medical advice/attention
Ingestion	P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
Storage	P405 - Store locked up P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
Disposal	P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable
Hazard(s) Not Otherwise Classified (HNOC)	Not applicable.
Physical Hazards Not Otherwise Classified (PHNOC)	Not applicable.
Unknown acute toxicity	Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Mixture.

Chemical name	CAS-No	Weight %
Phenol	108-95-2	13-30
Triethylene tetramine	112-24-3	1.5-5
Diethylene triamine	111-40-0	1.5-5
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	1760-24-3	<1
1-(2-Aminoethyl) piperazine	140-31-8	<1
Polyoxypropylenediamine	9046-10-0	<1
Methanol	67-56-1	<1
Ethylene diamine	107-15-3	<1
Ethanol	64-17-5	<1
Amine Elastomer	68683-29-4	<1
Amine Adduct	68082-29-1	<1
(Dimethylamino) Methylphenol	25338-55-0	<1
Fumed Silica	67762-90-7	<1
3-(Triethoxysilyl) propylamine	919-30-2	<1
1-Methylimidazole	616-47-7	<1

4. FIRST-AID MEASURES

Necessary first-aid measures

General Information	Immediately remove all soiled and contaminated clothing.
Inhalation	Remove to fresh air. If unconscious, place patient in side position for transportation. Call a physician or Poison Control Center immediately.
Ingestion	Call a physician or Poison Control Center immediately. Move to fresh air. Drink plenty of water. Never give anything by mouth to an unconscious person.
Skin contact	Immediately wash with water and soap and rinse thoroughly.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician.

Most important symptoms (acute) Causes severe skin burns and eye damage. May cause respiratory irritation. May cause allergic skin reaction.

Most important symptoms (over-exposure) May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide (CO ₂). Extinguishing powder. Water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable extinguishing media	None known.
Specific hazards	Thermal degradation may produce irritating or poisonous gases. In use, may form flammable/explosive vapour-air mixture.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate respirator when ventilation is inadequate. Wear appropriate protective equipment and clothing during cleanup. Keep unnecessary and unprotected personnel from entering the area. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs.

Methods and materials for containment and cleaning up

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Dispose of absorbent in accordance with local, state and federal regulations. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Precautions for safe handling

No special handling procedures needed. Ensure good ventilation or exhaustion at the workplace. Prevent formation of aerosols.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Phenol	5 ppm TWA 19 mg/m ³ TWA	5 ppm TWA Skin	5 ppm TWA 19 mg/m ³ TWA
Triethylene tetramine	-	-	-
Diethylene triamine	-	1 ppm TWA Skin	1 ppm TWA 4 mg/m ³ TWA
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	-	-	-
1-(2-Aminoethyl) piperazine	-	-	-
Polyoxypropylenediamine	-	-	-
Methanol	200 ppm TWA 260 mg/m ³ TWA	200 ppm TWA Skin	200 ppm TWA 260 mg/m ³ TWA
Ethylene diamine	10 ppm TWA 25 mg/m ³ TWA	10 ppm TWA Skin	10 ppm TWA 25 mg/m ³ TWA
Ethanol	1000 ppm TWA 1900 mg/m ³ TWA	-	1000 ppm TWA 1900 mg/m ³ TWA
Amine Elastomer	-	-	-
Amine Adduct	-	-	-
(Dimethylamino) Methylphenol	-	-	-
Fumed Silica	-	-	-
3-(Triethoxysilyl) propylamine	-	-	-
1-Methylimidazole	-	-	-

Appropriate engineering controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment**Eye protection**

Tightly fitting safety goggles.

Skin and body protection

Chemical-resistant, impervious gloves (Nitrile or Viton) complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use the the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Respiratory protection

Use a properly fitted, air-purifying (Organic vapor) or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hygiene measures

Keep away from food, drink and animal feeding stuffs. Immediately remove all soiled and contaminated clothing. Store protective clothing separately. Wash hands before breaks and at the end of workday. Avoid contact with skin, eyes and clothing.

Canadian Province Occupational Exposure Limits

Chemical name	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK
Phenol	5 ppm TWA 19 mg/m ³ TWA	5 ppm TWA	5 ppm TWA	5 ppm TWA 19 mg/m ³ TWA	5 ppm TWA	5 ppm TWA	5 ppm TWA	5 ppm TWA	5 ppm TWA 19 mg/m ³ TWA	5 ppm TWA
Triethylene tetramine	-	-	-	-	-	-	0.5 ppm TWA 3 mg/m ³ TWA	-	-	-
Diethylene triamine	1 ppm TWA 4.2 mg/m ³ TWA	1 ppm TWA	1 ppm TWA	1 ppm TWA 4.2 mg/m ³ TWA	1 ppm TWA	1 ppm TWA	1 ppm TWA	1 ppm TWA	1 ppm TWA 4.2 mg/m ³ TWA	1 ppm TWA
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	-	-	-	-	-	-	-	-	-	-
1-(2-Aminoethyl) piperazine	-	-	-	-	-	-	-	-	-	-
Polyoxypropylenediamine	-	-	-	-	-	-	-	-	-	-
Methanol	200 ppm TWA 262 mg/m ³ TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA 262 mg/m ³ TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA 262 mg/m ³ TWA	200 ppm TWA
Ethylene diamine	10 ppm TWA 25 mg/m ³ TWA	10 ppm TWA	10 ppm TWA	10 ppm TWA 25 mg/m ³ TWA	10 ppm TWA	10 ppm TWA	10 ppm TWA	10 ppm TWA	10 ppm TWA 25 mg/m ³ TWA	10 ppm TWA
Ethanol	1000 ppm TWA 1880 mg/m ³ TWA	-	-	1000 ppm TWA 1880 mg/m ³ TWA	-	-	-	-	1000 ppm TWA 1880 mg/m ³ TWA	1000 ppm TWA
Amine Elastomer	-	-	-	-	-	-	-	-	-	-
Amine Adduct (Dimethylamino) Methylphenol	-	-	-	-	-	-	-	-	-	-
Fumed Silica	-	-	-	-	-	-	-	-	-	-
3-(Triethoxysilyl) propylamine	-	-	-	-	-	-	-	-	-	-
1-Methylimidazole	-	-	-	-	-	-	-	-	-	-

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical state**

Liquid

Odor

Characteristic

Odor threshold

No information available

pH

No data available

Melting point/range °C

No data available

Melting point/range °F

No data available

Boiling point/range °C	> 200 °C
Boiling point/range °F	> 392 °F
Flash point °C	94
Flash point °F	201
Evaporation rate	No data available
Flammability (Solid, Gas)	No data available
Lower explosion limit	1.3 %
Upper explosion limit	9.5%
Vapor pressure	0.3 hPa
Vapor density	No data available
Relative density	1.26465
Solubility	Immiscible
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature °C	595 °C
Autoignition temperature °F	1103 °F
Decomposition temperature °C	No data available
Decomposition temperature °F	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Dermal. Eyes. Inhalation. Ingestion.
Symptoms	Corrosive, causes burns and permanent skin damage or scarring. Contact with eyes may cause severe irritation and possible chemical burns. Ingestion causes acute irritation and

burns to the mucous membranes of the mouth, trachea, esophagus and stomach.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

May cause genetic defects. May cause damage to organs through prolonged or repeated exposure. Sensitization possible through skin contact. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Phenol	-	= 317 mg/kg Rat = 340 mg/kg Rat 630 mg/kg Rabbit	340 mg/kg Rat = 630 mg/kg Rabbit
Triethylene tetramine	-	= 2500 mg/kg Rat 550 mg/kg Rabbit	2500 mg/kg Rat = 550 mg/kg Rabbit
Diethylene triamine	70 mg/L Rat	= 1080 mg/kg Rat 672 mg/kg Rabbit	1080 mg/kg Rat = 672 mg/kg Rabbit
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	-	= 2413 mg/kg Rat = 7460 µL/kg Rat	2413 mg/kg Rat
1-(2-Aminoethyl) piperazine	-	= 2140 µL/kg Rat 880 µL/kg Rabbit	2140 µL/kg Rat = 880 µL/kg Rabbit
Polyoxypropylenediamine	-	= 242 mg/kg Rat 2980 mg/kg Rabbit	242 mg/kg Rat = 2980 mg/kg Rabbit = 360 mg/kg Rabbit
Methanol	22500 ppm Rat	= 6200 mg/kg Rat 15840 mg/kg Rabbit	6200 mg/kg Rat = 15800 mg/kg Rabbit = 15840 mg/kg Rabbit
Ethylene diamine	4916 - 9832 mg/m³ Rat	= 637 mg/kg Rat 560 mg/kg Rabbit	637 mg/kg Rat = 560 mg/kg Rabbit
Ethanol	124.7 mg/L Rat	= 7060 mg/kg Rat	7060 mg/kg Rat
Amine Elastomer	-	-	-
Amine Adduct	-	-	-
(Dimethylamino) Methylphenol	-	-	-
Fumed Silica	-	-	-
3-(Triethoxysilyl) propylamine	>7.35 mg/L Rat	= 1780 mg/kg Rat 4290 mg/kg Rabbit	1780 mg/kg Rat = 4 mL/kg Rabbit = 4290 mg/kg Rabbit
1-Methylimidazole	-	= 1400 mg/kg Mouse	-

ATEmix (dermal) Not available

ATEmix (oral) Not available

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA Carcinogens	NTP
Phenol	A4	Group 3	-	-
Triethylene tetramine	-	-	-	-
Diethylene triamine	-	-	-	-
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	-	-	-	-
1-(2-Aminoethyl) piperazine	-	-	-	-

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA Carcinogens	NTP
Polyoxypropylenediamine	-	-	-	-
Methanol	-	-	-	-
Ethylene diamine	A4	-	-	-
Ethanol	A3	Group 1	Present	Known carcinogen
Amine Elastomer	-	-	-	-
Amine Adduct	-	-	-	-
(Dimethylamino) Methylphenol	-	-	-	-
Fumed Silica	-	-	-	-
3-(Triethoxysilyl) propylamine	-	-	-	-
1-Methylimidazole	-	-	-	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Phenol	-	-	ACGIH A4	ACGIH A4	ACGIH A4	-
Triethylene tetramine	-	-	-	-	-	-
Diethylene triamine	-	-	-	-	-	-
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	-	-	-	-	-	-
1-(2-Aminoethyl) piperazine	-	-	-	-	-	-
Polyoxypropylenediamine	-	-	-	-	-	-
Methanol	-	-	-	-	-	-
Ethylene diamine	-	-	ACGIH A4	ACGIH A4	ACGIH A4	-
Ethanol	-	-	ACGIH A3	ACGIH A4	ACGIH A3	-
Amine Elastomer	-	-	-	-	-	-
Amine Adduct	-	-	-	-	-	-
(Dimethylamino) Methylphenol	-	-	-	-	-	-
Fumed Silica	-	-	-	-	-	-
3-(Triethoxysilyl) propylamine	-	-	-	-	-	-
1-Methylimidazole	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish LC50
Phenol	=46.42mg/L <i>Pseudokirchneriella subcapitata</i> 96h 187 - 279mg/L <i>Desmodesmus subspicatus</i> 72h 0.0188 - 0.1044mg/L <i>Pseudokirchneriella subcapitata</i> 96h	11.9 - 25.3mg/L <i>Lepomis macrochirus</i> 96h 11.9 - 50.5mg/L <i>Pimephales promelas</i> 96h 20.5 - 25.6mg/L <i>Pimephales promelas</i> 96h 23.4 - 36.6mg/L <i>Oryzias latipes</i> 96h 33.9 - 43.3mg/L <i>Oryzias latipes</i> 96h 34.09 - 47.64mg/L <i>Poecilia reticulata</i> 96h 4.23 - 7.49mg/L <i>Oncorhynchus mykiss</i> 96h 5.0 - 12.0mg/L <i>Oncorhynchus mykiss</i> 96h 5.449 - 6.789mg/L <i>Oncorhynchus mykiss</i> 96h 7.5 - 14mg/L <i>Oncorhynchus mykiss</i> 96h = 0.00175mg/L <i>Cyprinus carpio</i> 96h = 11.5mg/L <i>Lepomis macrochirus</i> 96h = 13.5mg/L <i>Lepomis macrochirus</i> 96h = 27.8mg/L <i>Brachydanio rerio</i> 96h

Chemical name	Algae/aquatic plants	Fish LC50
		= 31mg/L <i>Poecilia reticulata</i> 96h = 32mg/L <i>Pimephales promelas</i> 96h
Triethylene tetramine	=2.5mg/L <i>Desmodesmus subspicatus</i> 72h =20mg/L <i>Pseudokirchneriella subcapitata</i> 72h =3.7mg/L <i>Pseudokirchneriella subcapitata</i> 96h	= 100mg/L <i>Poecilia reticulata</i> 96h = 495mg/L <i>Pimephales promelas</i> 96h = 570mg/L <i>Poecilia reticulata</i> 96h
Diethylene triamine	=1164mg/L <i>Pseudokirchneriella subcapitata</i> 72h =345.6mg/L <i>Pseudokirchneriella subcapitata</i> 96h =592mg/L <i>Desmodesmus subspicatus</i> 96h	= 100mg/L <i>Poecilia reticulata</i> 96h = 1014mg/L <i>Poecilia reticulata</i> 96h = 248mg/L <i>Poecilia reticulata</i> 96h = 430mg/L <i>Leuciscus idus</i> 96h
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	-	-
1-(2-Aminoethyl) piperazine	=495mg/L <i>Pseudokirchneriella subcapitata</i> 72h	1950 - 2460mg/L <i>Pimephales promelas</i> 96h > 1000mg/L <i>Poecilia reticulata</i> 96h >= 100mg/L <i>Oncorhynchus mykiss</i> 96h
Polyoxypropylenediamine	-	-
Methanol	-	13500 - 17600mg/L <i>Lepomis macrochirus</i> 96h 18 - 20mL/L <i>Oncorhynchus mykiss</i> 96h 19500 - 20700mg/L <i>Oncorhynchus mykiss</i> 96h = 28200mg/L <i>Pimephales promelas</i> 96h > 100mg/L <i>Pimephales promelas</i> 96h
Ethylene diamine	=645mg/L <i>Pseudokirchneriella subcapitata</i> 72h =151mg/L <i>Pseudokirchneriella subcapitata</i> 96h	180 - 560mg/L <i>Poecilia reticulata</i> 96h 191 - 254mg/L <i>Pimephales promelas</i> 96h 98.6 - 131.6mg/L <i>Pimephales promelas</i> 96h = 115.7mg/L <i>Pimephales promelas</i> 96h
Ethanol	-	12.0 - 16.0mL/L <i>Oncorhynchus mykiss</i> 96h 13400 - 15100mg/L <i>Pimephales promelas</i> 96h > 100mg/L <i>Pimephales promelas</i> 96h
Amine Elastomer	-	-
Amine Adduct (Dimethylamino) Methylphenol	-	= 7.07mg/L <i>Danio rerio</i> 96h
Fumed Silica	-	-
3-(Triethoxysilyl) propylamine	-	> 934mg/L <i>Danio rerio</i> 96h
1-Methylimidazole	-	-

Persistence and degradability No data available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)	Bioconcentration factor (BCF)
Phenol 108-95-2	108-95-2	1.5 (EU2016/266)	no significant bioaccumulation
Triethylene tetramine 112-24-3	112-24-3	-1.4	no bioaccumulation expected
Diethylene triamine 111-40-0	111-40-0	-1.3	0.3 - 1.7 BCF method: OECD 305C
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane 1760-24-3	1760-24-3	-	-
1-(2-Aminoethyl) piperazine 140-31-8	140-31-8	-1.48	no bioaccumulation expected
Polyoxypropylenediamine 9046-10-0	9046-10-0	-	-
Methanol 67-56-1	67-56-1	-0.77	<10 species: fish
Ethylene diamine 107-15-3	107-15-3	-1.221	-
Ethanol	64-17-5	-0.32	-

Chemical name	CAS-No	Partition coefficient (log Kow)	Bioconcentration factor (BCF)
64-17-5			
Amine Elastomer 68683-29-4	68683-29-4	-	-
Amine Adduct 68082-29-1	68082-29-1	-	-
(Dimethylamino) Methylphenol 25338-55-0	25338-55-0	-	-
Fumed Silica 67762-90-7	67762-90-7	-	-
3-(Triethoxysilyl) propylamine 919-30-2	919-30-2	-	-
1-Methylimidazole 616-47-7	616-47-7	-	-

Mobility in soil

Not available.

Other adverse effects

Hazardous for water, do not empty into drains. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Danger to drinking water if even extremely small quantities leak into the ground.

13. DISPOSAL CONSIDERATIONS

Disposal information

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations.

Contaminated packaging

Dispose in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

Shipping Descriptions**DOT**

ID-No	UN2922
Proper shipping name	Corrosive liquids, toxic, n.o.s. (polyoxypropylenediamine, phenol)
Hazard Class(es)	8
Subsidiary Risk	6.1
Packing group	II
Marine pollutant	No.
Special Provisions	LTD QTY

TDG

ID-No	UN2922
Proper shipping name	Corrosive liquids, toxic, n.o.s. (polyoxypropylenediamine, phenol)
Hazard Class(es)	8
Subsidiary Risk	6.1
Packing group	II
Marine pollutant	No.
Special Provisions	LTD QTY

IATA

ID-No	UN2922
Proper shipping name	Corrosive liquids, toxic, n.o.s. (polyoxypropylenediamine, phenol)
Hazard Class(es)	8
Subsidiary Risk	6.1
Packing group	II
Special Provisions	LTD QTY

IMDG/IMO

ID-No	UN2922
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Proper shipping name	Corrosive liquids, toxic, n.o.s. (polyoxypropylenediamine, phenol)
Hazard Class(es)	8
Subsidiary Risk	6.1
Packing group	II
EmS No	F-A, S-B
Marine pollutant	No
Special Provisions	LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Phenol	108-95-2	-	-	-
Triethylene tetramine	112-24-3	-	-	-
Diethylene triamine	111-40-0	-	-	-
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	1760-24-3	-	-	-
1-(2-Aminoethyl) piperazine	140-31-8	-	-	-
Polyoxypropylenediamine	9046-10-0	-	-	-
Methanol	67-56-1	-	-	-
Ethylene diamine	107-15-3	-	-	-
Ethanol	64-17-5	-	-	-
Amine Elastomer	68683-29-4	-	-	-
Amine Adduct	68082-29-1	-	-	-
(Dimethylamino) Methylphenol	25338-55-0	-	-	-
Fumed Silica	67762-90-7	-	-	-
3-(Triethoxysilyl) propylamine	919-30-2	-	-	-
1-Methylimidazole	616-47-7	-	-	-

Special Precautions

Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION**State regulations****U.S. state Right-to-Know regulations**

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Phenol	108-95-2	X	X	X
Triethylene tetramine	112-24-3	X	X	X
Diethylene triamine	111-40-0	X	X	X
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	1760-24-3	-	-	-
1-(2-Aminoethyl) piperazine	140-31-8	X	X	X
Polyoxypropylenediamine	9046-10-0	-	-	-
Methanol	67-56-1	X	X	X
Ethylene diamine	107-15-3	X	X	X
Ethanol	64-17-5	X	X	X
Amine Elastomer	68683-29-4	-	-	-
Amine Adduct	68082-29-1	-	-	-
(Dimethylamino) Methylphenol	25338-55-0	-	-	-
Fumed Silica	67762-90-7	-	-	-

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
3-(Triethoxysilyl) propylamine	919-30-2	-	-	-
1-Methylimidazole	616-47-7	-	-	-

California Prop. 65

WARNING: This product contains a chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm

Chemical name	CAS-No	California Prop. 65
Phenol	108-95-2	-
Triethylene tetramine	112-24-3	-
Diethylene triamine	111-40-0	-
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	1760-24-3	-
1-(2-Aminoethyl) piperazine	140-31-8	-
Polyoxypropylenediamine	9046-10-0	-
Methanol	67-56-1	Developmental
Ethylene diamine	107-15-3	-
Ethanol	64-17-5	-
Amine Elastomer	68683-29-4	-
Amine Adduct	68082-29-1	-
(Dimethylamino) Methylphenol	25338-55-0	-
Fumed Silica	67762-90-7	-
3-(Triethoxysilyl) propylamine	919-30-2	-
1-Methylimidazole	616-47-7	-

U.S. Federal Regulations**US EPA SARA 313**

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Phenol	108-95-2	1000 lb 454 kg	1.0 %
Triethylene tetramine	112-24-3	-	-
Diethylene triamine	111-40-0	-	-
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	1760-24-3	-	-
1-(2-Aminoethyl) piperazine	140-31-8	-	-
Polyoxypropylenediamine	9046-10-0	-	-
Methanol	67-56-1	5000 lb 2270 kg	1.0 %
Ethylene diamine	107-15-3	5000 lb 2270 kg	-
Ethanol	64-17-5	-	-
Amine Elastomer	68683-29-4	-	-
Amine Adduct	68082-29-1	-	-
(Dimethylamino) Methylphenol	25338-55-0	-	-
Fumed Silica	67762-90-7	-	-
3-(Triethoxysilyl) propylamine	919-30-2	-	-
1-Methylimidazole	616-47-7	-	-

US EPA SARA 311/312 hazardous categorization

Not available

TSCA and Canadian Inventories

Chemical name	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification	DSL	NDSL
Phenol	X	-	X	-
Triethylene tetramine	X	-	X	-
Diethylene triamine	X	-	X	-
N-beta (aminoethyl) gamma-aminopropyltrimethoxysilane	X	-	X	-
1-(2-Aminoethyl) piperazine	X	-	X	-
Polyoxypropylenediamine	X	-	X	-
Methanol	X	-	X	X
Ethylene diamine	X	-	X	-
Ethanol	X	-	X	X
Amine Elastomer	X	-	X	-
Amine Adduct	X	-	X	-
(Dimethylamino) Methylphenol	X	-	X	-
Fumed Silica	X	-	X	-
3-(Triethoxysilyl) propylamine	X	-	X	-
1-Methylimidazole	X	-	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health	3
Flammability	1
Instability	0

HMIS

Health	3 *
Flammability	1
Physical hazards	0

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

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Revision note

Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)
 ATE (Average Toxicity Estimate)
 DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)
 HMIS (Hazardous Materials Identification System)
 IARC (International Agency for Research on Cancer)
 IATA (International Air Transport Association)
 IMDG/IMO (International Maritime Dangerous Goods/International Maritime Organization)

NFPA (National Fire Protection Association)

NTP (National Toxicology Program)

OEL (Occupational Exposure Level)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEL (Permissible Exposure Limit)

TSCA (Toxic Substance Control Act)

USEPA (United States Environmental Protection Agency)

Disclaimer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

End of Safety Data Sheet