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**Section 1 - PRODUCT AND COMPANY IDENTIFICATION**

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**Material Name**

CCW-703 Horizontal Liqueal - Part B

**Chemical Family**

Sealant

**Product Use**

Waterproofing membrane

**Restrictions on Use**

For industrial use only.

**Manufacturer Information**

Carlisle SynTec  
1285 Ritner Highway  
Carlisle, PA 17013  
USA  
Phone: +1-800-479-6832  
Emergency Phone #: +1-800-424-9300 (CHEMTREC)

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**Section 2 - HAZARDS IDENTIFICATION**

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**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Respiratory Sensitization - Category 1A

Skin Sensitization - Category 1A

Carcinogenicity - Category 2

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 ( respiratory system )

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**

Causes skin irritation

Causes serious eye irritation

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled

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May cause allergic skin reaction  
Suspected of causing cancer  
May cause respiratory irritation  
Causes damage to organs through prolonged or repeated exposure

### Precautionary Statement(s)

#### Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use only outdoors or in a well-ventilated area  
Wear protective gloves/protective clothing/eye protection/face protection  
Do not breathe dust/fume/gas/mist/vapours/spray  
Wash thoroughly after handling  
Contaminated work clothing must not be allowed out of the workplace  
Do not eat, drink or smoke when using this product

#### Response

IF exposed or concerned: Get medical advice/attention  
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
IF ON SKIN: Wash with plenty of soap and water  
Take off contaminated clothing and wash before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
Call a POISON CENTER or doctor if you feel unwell  
Specific treatment (see label)

#### Storage

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

#### Disposal

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

#### Other Hazards

No additional information available.

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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
101-68-8	4,4'-Methylenediphenyl diisocyanate	15-40
26447-40-5	Diphenylmethane diisocyanate	15-40
78-40-0	Triethyl phosphate	0.1-1

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61788-32-7	Hydrogenated terphenyls	30-60
26140-60-3	Terphenyls	1-5

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### Section 4 - FIRST AID MEASURES

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#### Description of Necessary Measures

If exposed or concerned: Get medical advice/attention.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

#### Skin

Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. Immediately call a POISON CENTER or doctor/physician.

#### Eyes

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

#### Ingestion

Do NOT induce vomiting. If swallowed, get medical attention.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

#### Most Important Symptoms/Effects

##### Acute

Causes skin irritation. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause respiratory irritation.

##### Delayed

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure: respiratory system.

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### Section 5 - FIRE FIGHTING MEASURES

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#### Extinguishing Media

##### Suitable Extinguishing Media

Dry chemical, foam or carbon dioxide. Water may be ineffective. Use water spray to keep containers cool.

##### Unsuitable Extinguishing Media

High-pressure water streams.

#### Special Hazards Arising from the Chemical

May react on contact with water. May decompose upon heating to produce corrosive and/or toxic fumes.

#### Hazardous Combustion Products

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Isocyanate vapor, oxides of carbon, oxides of nitrogen, hydrogen cyanide

### **Special Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### **Fire Fighting Measures**

Evacuate area. Do not reseal contaminated containers.

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## **Section 6 - ACCIDENTAL RELEASE MEASURES**

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### **Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

### **Methods and Materials for Containment and Cleaning Up**

Keep unauthorized personnel away. Ventilate affected area. Vapor-suppressing foam may be used to control vapors. Collect with absorbent into suitable container. Transfer to open top containers in a well-ventilated place and neutralize with 10% mixture of ammonium hydroxide in water for 48 hours allowing carbon dioxide to escape.

### **Environmental Precautions**

Avoid release to the environment. Prevent entry into waterways, sewers, basements, or confined areas.

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## **Section 7 - HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin and clothing. Wear respiratory protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. **KEEP OUT OF REACH OF CHILDREN.**

### **Conditions for Safe Storage, Including any Incompatibilities**

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Do not store at temperatures below 40 °F, 5 °C. Avoid contact with incompatible materials.

### **Incompatible Materials**

Alcohols, acids, bases, amines, metal compounds, surface active agent.

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## **Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **Component Exposure Limits**

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<b>4,4'-Methylenediphenyl diisocyanate</b>	101-68-8	
ACGIH:	0.005 ppm TWA	
NIOSH:	0.005 ppm TWA; 0.05 mg/m <sup>3</sup> TWA	0.02 ppm Ceiling 10 min; 0.2 mg/m <sup>3</sup> Ceiling 10 min
	75 mg/m <sup>3</sup> IDLH	
OSHA (US):	0.02 ppm Ceiling; 0.2 mg/m <sup>3</sup> Ceiling	
<b>Diphenylmethane diisocyanate</b>	26447-40-5	
OSHA (US):	0.02 ppm Ceiling; 0.2 mg/m <sup>3</sup> Ceiling	
Mexico:	0.02 ppm TWA LMPE-PPT; 0.2 mg/m <sup>3</sup> TWA LMPE-PPT; 0.005 ppm TWA LMPE-PPT as Methylene bisphenyl isocyanate; 0.051 mg/m <sup>3</sup> TWA LMPE-PPT as Methylene bisphenyl isocyanate	
<b>Hydrogenated terphenyls</b>	61788-32-7	
ACGIH:	0.5 ppm TWA (non-irradiated)	
NIOSH:	0.5 ppm TWA; 5 mg/m <sup>3</sup> TWA	
Mexico:	0.5 ppm TWA LMPE-PPT; 5 mg/m <sup>3</sup> TWA LMPE-PPT	
<b>Terphenyls</b>	26140-60-3	
ACGIH:	5 mg/m <sup>3</sup> Ceiling	
NIOSH:	500 mg/m <sup>3</sup> IDLH	
OSHA (US):	1 ppm Ceiling; 9 mg/m <sup>3</sup> Ceiling	
Mexico:	0.5 ppm Ceiling	

### Biological limit value

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

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**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**

Wear appropriate work clothing. Wear rubber boots. Recommended material: protective skin cream.

**Respiratory Protection**

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**Glove Recommendations**

Wear impermeable gloves.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	yellow oily liquid	<b>Physical State</b>	liquid
<b>Odor</b>	mild	<b>Color</b>	yellow
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	>0 °C	<b>Boiling Point</b>	314 - 342 °C (597-648 °F)
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	374 °C (705 °F)	<b>Flash Point</b>	177 °C (351 °F)
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	0.001 mmHg (@ 40 °C)
<b>Vapor Density (air=1)</b>	>1	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	reacts with water	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	1.09 - 1.14 (relative)	<b>VOC</b>	<10 g/L

**Other Information**

No additional information available.

### Section 10 - STABILITY AND REACTIVITY

## Safety Data Sheet

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**Reactivity**

May react on contact with water.

**Chemical Stability**

Stable under normal conditions of use. May react on contact with water.

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Avoid contact with water. Prolonged heating above 160°C or storage below 5°C. Avoid contact with incompatible materials.

**Incompatible Materials**

Alcohols, acids, bases, amines, metal compounds, surface active agent

**Hazardous decomposition products**

Isocyanate vapor, oxides of carbon, oxides of nitrogen, hydrogen cyanide

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### Section 11 - TOXICOLOGICAL INFORMATION

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**Information on Likely Routes of Exposure**

**Inhalation**

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

**Skin Contact**

Causes skin irritation. May cause allergic skin reaction.

**Eye Contact**

Causes serious eye irritation.

**Ingestion**

May cause gastrointestinal irritation.

**Acute and Chronic Toxicity**

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

4,4'-Methylenediphenyl diisocyanate (101-68-8)

Oral LD50 Rat 31600 mg/kg

Inhalation LC50 Rat 369 mg/m<sup>3</sup> 4 h

Diphenylmethane diisocyanate (26447-40-5)

Oral LD50 Rat >7400 mg/kg

Dermal LD50 Rabbit >6200 mg/kg

Inhalation LC50 Rat 0.369 mg/L 4 h

Triethyl phosphate (78-40-0)

Oral LD50 Rat 1100 - 1600 mg/kg

Hydrogenated terphenyls (61788-32-7)

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Oral LD50 Rat >10000 mg/kg  
 Dermal LD50 Rabbit >2000 mg/kg  
 Inhalation LC50 Rat >4.7 mg/L 4 hr

Terphenyls (26140-60-3)

Oral LD50 Mouse >2000 mg/kg  
 Dermal LD50 Rabbit >2000 mg/kg  
 Inhalation LC50 Rat >3.8 mg/L

**Immediate Effects**

Potentially fatal if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause respiratory irritation.

**Delayed Effects**

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure: respiratory system.

**Irritation/Corrosivity Data**

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**Respiratory Sensitization**

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

**Dermal Sensitization**

May cause allergic skin reaction.

**Component Carcinogenicity**

<b>4,4'-Methylenediphenyl diisocyanate</b>	101-68-8
IARC:	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))
DFG:	Category 4 (no significant contribution to human cancer)
<b>Diphenylmethane diisocyanate</b>	26447-40-5
IARC:	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

May cause respiratory irritation.

**Specific Target Organ Toxicity - Repeated Exposure**

Respiratory system



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**Aspiration hazard**

No data available.

**Medical Conditions Aggravated by Exposure**

May cause allergic skin reaction. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

**Additional Data**

No additional information available.

### Section 12 - ECOLOGICAL INFORMATION

**Ecotoxicity**

Avoid release to the environment. Very toxic to aquatic life with long lasting effects.

**Component Analysis - Aquatic Toxicity**

<b>Hydrogenated terphenyls</b>	61788-32-7
Fish:	LC50 96 h Pimephales promelas >0.53 mg/L [static]; LC50 96 h Lepomis macrochirus >0.53 mg/L [static]; LC50 96 h Oncorhynchus mykiss >0.53 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >0.53 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 0.011 mg/L IUCLID
<b>Terphenyls</b>	26140-60-3
Fish:	LC50 96 h Oncorhynchus mykiss >0.11 mg/L [static]; LC50 96 h Lepomis macrochirus >0.11 mg/L [static]; LC50 96 h Pimephales promelas >0.11 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata 0.02 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >0.11 mg/L IUCLID

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

**Other Toxicity**

No additional information available.

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### Section 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods**

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

### Section 14 - TRANSPORT INFORMATION

**US DOT Information:**

UN/NA #: Not regulated

**IATA Information:**

UN#: Not regulated

**TDG Information:**

UN#: Not regulated

### Section 15 - REGULATORY INFORMATION

**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

4,4'-Methylenediphenyl diisocyanate	101-68-8
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ; 2270 kg final RQ

**SARA Section 311/312 (40 CFR 370 Subparts B and C)**

**Acute Health:** Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactivity:** No

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
4,4'-Methylenediphenyl diisocyanate	101-68-8	Yes	Yes	Yes	No	Yes
Diphenylmethane diisocyanate	26447-40-5	No	Yes	No	Yes	No

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Hydrogenated terphenyls	61788-32-7	Yes	Yes	Yes	Yes	Yes
Terphenyls	26140-60-3	Yes	Yes	Yes	Yes	Yes

**Not listed under California Proposition 65**

**Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

4,4'-Methylenediphenyl diisocyanate	101-68-8
	0.1 %

**Component Analysis - Inventory**

4,4'-Methylenediphenyl diisocyanate (101-68-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Diphenylmethane diisocyanate (26447-40-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Benzene, 1,1'-methylenebis[isocyanato-, homopolymer (39310-05-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Triethyl phosphate (78-40-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Hydrogenated terphenyls (61788-32-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

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Quaterphenyls, partially hydrogenated (68956-74-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	No	No	Yes	Yes	No

Terphenyls (26140-60-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

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### Section 16 - OTHER INFORMATION

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**HMIS Rating**

Health: 2\* Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

**NFPA Ratings**

Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

New SDS: April 23, 2015

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation,

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Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### **Other Information**

#### **Disclaimer:**

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, CCWI Company must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.