



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

RTA-50

Synonyms

Adhesive/Liquid Portion of Two Part II Sealing System

Chemical Family

Adhesive

Product Use

Indoor, outdoor duct sealant

Restrictions on Use

For industrial use only.

Manufacturer Information

Carlisle HVAC Products
900 Hensley Lane
Wylie, TX 75098
www.carlislehvac.com

Medical Emergency:

CHEMTREC (USA): (800) 424-9300

MSDS Assistance – 972-442-6545

Technical Assistance – 888-229-2199

Customer Service – 888-229-0199– 888-229-0199

Section 2 - HAZARDS IDENTIFICATION

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

Skin Sensitization - Category 1A

Reproductive Toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure - Category 1 (liver, kidneys, central nervous system)

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1

Safety Data Sheet

Material Name: RTA-50

Product #: 304168

GHS Label Elements

Symbol(s)



Signal Word

Danger

Hazard Statement(s)

May cause allergic skin reaction

May damage fertility or the unborn child

Causes damage to organs

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: Call a POISON CENTER or doctor/physician

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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.



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
Trade Secret	Polymer, vinyl acetate and vinyl acetate-acrylic	30-60
Trade Secret	De-foaming agent	0.1-1
Trade Secret	Nonylphenol polyethylene glycol ether	0.1-1
Trade Secret	Chlorinated paraffins	1-5
107-21-1	Ethylene glycol	1-5
Trade Secret	Clay compound	0.1-1
1317-65-3	Limestone	7-13
Mixture	4,4-Dimethyloxazolidine	0.1-1
Mixture	2-Amino-2-methyl-1-propanol mixture	0.1-1
Mixture	Titanium dioxide	0.1-1
Mixture	Polycarboxylate salt	0.1-1
Mixture	2-Butoxyethanol mixture	0.5-1.5
7779-90-0	Zinc phosphate	1-5
25265-77-4	2,2,4-Trimethylpentane-1,3-diol monoisobutyrate	0.1-1

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

If exposed or concerned: Call a POISON CENTER or doctor/physician.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Skin

Wash with plenty of soap and water. Remove contaminated clothing and wash it before reuse. If skin irritation or rash occurs, seek medical advice/attention.

Eyes

Rinse cautiously with water for at least 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. Immediately call a POISON CENTER or doctor/physician.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

May cause allergic skin reaction. Causes damage to central nervous system, liver, kidneys. May cause respiratory irritation.

Delayed

May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure:

Note to Physicians

Contains ethylene glycol.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Slight fire hazard. Containers may rupture or explode if exposed to heat.

Hazardous Combustion Products Ooxides of carbon, oxides of nitrogen, hydrocarbons

Fire Fighting Measures

Remove product from area of fire. Stay upwind and keep out of low areas.

Special Protective Equipment and Precautions for Firefighters

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



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

This product contains crystalline silica, which is a known carcinogen: Do not grind or sand. 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. 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

Store above 0 C. Store below 45 C. Do not cut, puncture, or weld on or near this container. Keep away from incompatible materials.

Incompatible Materials

Strong acids, strong oxidizing agents

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Ethylene glycol	107-21-1	
ACGIH:	100 mg/m ³ Ceiling aerosol only	
Europe:	20 ppm TWA; 52 mg/m ³ TWA	40 ppm STEL; 104 mg/m ³ STEL
	Possibility of significant uptake through the skin	



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Mexico:	100 mg/m3 Ceiling aerosol	
Clay compound	Trade Secret	
ACGIH:	0.025 mg/m3 TWA respirable fraction	
NIOSH:	0.05 mg/m3 TWA respirable dust	50 mg/m3 IDLH respirable dust
OSHA (US):	((30)/(%SiO ₂ + 2) mg/m3 TWA) total dust; ((250)/(%SiO ₂ + 5) mppcf TWA) respirable fraction; ((10)/(%SiO ₂ + 2) mg/m3 TWA) respirable fraction	
Mexico:	0.1 mg/m3 TWA LMPE-PPT respirable fraction	
Limestone	1317-65-3	
NIOSH:	10 mg/m3 TWA total dust; 5 mg/m3 TWA respirable dust	
OSHA (US):	15 mg/m3 TWA total dust; 5 mg/m3 TWA respirable fraction	
Mexico:	10 mg/m3 TWA LMPE-PPT	20 mg/m3 STEL [LMPE-CT]
Titanium dioxide	Mixture	
ACGIH:	10 mg/m3 TWA	
NIOSH:	5000 mg/m3 IDLH	
OSHA (US):	15 mg/m3 TWA total dust	
Mexico:	10 mg/m3 TWA LMPE-PPT as Ti	20 mg/m3 STEL [LMPE-CT] as Ti
2-Butoxyethanol mixture	Mixture	
ACGIH:	20 ppm TWA	
NIOSH:	5 ppm TWA; 24 mg/m3 TWA	700 ppm IDLH
	Potential for dermal absorption	
Europe:	20 ppm TWA; 98 mg/m3 TWA	50 ppm STEL; 246 mg/m3 STEL
	Possibility of significant uptake through the skin	



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

OSHA (US):	50 ppm TWA; 240 mg/m3 TWA	
	prevent or reduce skin absorption	
Mexico:	26 ppm TWA LMPE-PPT; 120 mg/m3 TWA LMPE-PPT	
	75 ppm STEL [LMPE-CT]; 360 mg/m3 STEL [LMPE-CT]	
	Skin - potential for cutaneous absorption	
Silica, amorphous	7631-86-9	
NIOSH:	6 mg/m3 TWA	3000 mg/m3 IDLH
OSHA (US):	20 mppcf TWA; ((80)/(% SiO2) mg/m3 TWA)	
Mica	12001-26-2	
ACGIH:	3 mg/m3 TWA respirable fraction	
NIOSH:	3 mg/m3 TWA (containing <1% Quartz) respirable dust	
	1500 mg/m3 IDLH (containing <1% Quartz)	
OSHA (US):	20 mppcf TWA (<1% Crystalline silica)	
Mexico:	3 mg/m3 TWA LMPE-PPT respirable fraction	

Biological limit value

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

Engineering Controls

Provide adequate ventilation. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses or safety goggles, with a faceshield, as appropriate.

Skin Protection

Wear appropriate work clothing.

Respiratory Protection

A NIOSH approved respirator with a dust, mist, and fume filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits or when symptoms have been observed that are indicative of overexposure.

Glove Recommendations

Wear appropriate gloves. Recommended material type: Hycron(R), neoprene, nitrile.

Protective Materials

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



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white latex	Physical State	liquid
Odor	Slight, ammonia	Color	white
Odor Threshold	Not available	pH	8 - 9
Melting Point	Not available	Boiling Point	212 °F
Freezing point	Not available	Evaporation Rate	48 - 52 % volume
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	17 mmHg (@ 20 °C)
Vapor Density (air=1)	<1	Specific Gravity (water=1)	Not available
Water Solubility	Soluble	Partition coefficient: n-octanol/water	Not available
Viscosity	3000 - 4000 cps	Solubility (Other)	Not available
Density	1.24 (relative)	VOC	130 g/L (water excluded)

Other Information

No additional information available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Incompatible Materials

Strong acids, strong oxidizing agents

Hazardous decomposition products

Oxides of carbon, oxides of nitrogen, hydrocarbons

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause respiratory irritation.

Skin Contact

May cause allergic skin reaction. May cause mild skin irritation.

Eye Contact

May cause mild eye irritation.

Ingestion

Large doses may cause central nervous system stimulation followed by depression.

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:

Polymer, vinyl acetate and vinyl acetate-acrylic (Trade Secret)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rat >2000 mg/kg

De-foaming agent (Trade Secret)

Oral LD50 >2000 mg/kg

Nonylphenol polyethylene glycol ether (Trade Secret)

Oral LD50 Rat 2780 mg/kg

Chlorinated paraffins (Trade Secret)

Oral LD50 Rat >4 g/kg

Ethylene glycol (107-21-1)

Oral LD50 Rat 4700 mg/kg

Dermal LD50 Rat 10600 mg/kg

Inhalation LC50 Rat >200 mg/m³ vapor 4 hr

Clay compound (Trade Secret)

Oral LD50 Rat 500 mg/kg

Limestone (1317-65-3)

Oral LD50 Rat 6450 mg/kg

4,4-Dimethyloxazolidine (Mixture)

Oral LD50 Rat 1370 mg/kg

Dermal LD50 Rat >2000 mg/kg

Inhalation LC50 Rat 1.1 mg/L 4 hr



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

- 2-Amino-2-methyl-1-propanol mixture (Mixture)
 - Oral LD50 Rat 2900 mg/kg
 - Dermal LD50 Rabbit >2000 mg/kg
- Titanium dioxide (Mixture)
 - Oral LD50 Rat >25 g/kg
 - Dermal LD50 Rabbit >10 g/kg
 - Inhalation LC50 Rat >6.82 mg/L
- Polycarboxylate salt (Mixture)
 - Oral LD50 Rat >5000 mg/kg
 - Dermal LD50 Rabbit >2000 mg/kg
 - Inhalation LC50 Rat >5.1 mg/L total dust, mist
- 2-Butoxyethanol mixture (Mixture)
 - Oral LD50 Rat 1400 mg/kg
 - Dermal LD50 Rabbit >2000 mg/kg
 - Inhalation LC50 Rat 450 ppm 4 h
- Silica, amorphous (7631-86-9)
 - Oral LD50 Rat >5000 mg/kg
 - Dermal LD50 Rabbit >2000 mg/kg
 - Inhalation LC50 Rat >2.2 mg/L 1 h
- Zinc borate (138265-88-0)
 - Oral LD50 Rat >10000 mg/kg
 - Dermal LD50 Rabbit >10000 mg/kg
 - Inhalation LC50 Rat >5 mg/L 4 hr
- Zinc phosphate (7779-90-0)
 - Oral LD50 Rat >5000 mg/kg
- 2,2,4-Trimethylpentane-1,3-diol monoisobutyrate (25265-77-4)
 - Oral LD50 Rat 3200 mg/kg
 - Dermal LD50 Rat >15200 mg/kg
 - Inhalation LC50 Rat >2.73 mg/L

Immediate Effects

May cause allergic skin reaction. Causes damage to central nervous system, liver, kidneys. May cause respiratory irritation.

Delayed Effects

May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure:

Irritation/Corrosivity Data

May cause respiratory irritation. May cause mild skin irritation. May cause mild eye irritation.

Respiratory Sensitization

No data available.

Dermal Sensitization

May cause allergic skin reaction.



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Component Carcinogenicity

Chlorinated paraffins	Trade Secret
IARC:	Monograph 48 [1990] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3B (could be carcinogenic for man)
OSHA:	Present
Ethylene glycol	107-21-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
Clay compound	Trade Secret
ACGIH:	A2 - Suspected Human Carcinogen
IARC:	Monograph 100C [2012]; Monograph 68 [1997] (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen (respirable size)
DFG:	Category 1 (causes cancer in man, alveola fraction)
OSHA:	Present (respirable size)
Titanium dioxide	Mixture
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 93 [2010]; Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles)
OSHA:	Present
2-Butoxyethanol mixture	Mixture
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 88 [2006] (Group 3 (not classifiable))
DFG:	Category 4 (no significant contribution to human cancer)



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Silica, amorphous	7631-86-9
IARC:	Monograph 68 [1997]; Supplement 7 [1987] (Group 3 (not classifiable))

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available

Reproductive Toxicity

May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, liver, kidneys

Specific Target Organ Toxicity - Repeated Exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

Additional Data

This product contains crystalline silica, which is a known carcinogen. However, this component is bound by the polymer portion of the sealant. The only way this component would be released is through incineration. Therefore, this product is not considered a carcinogen.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment.

Component Analysis - Aquatic Toxicity

Chlorinated paraffins	Trade Secret
Fish:	LC50 96 h <i>Lepomis macrochirus</i> >300 mg/L [static]; LC50 96 h <i>Oncorhynchus mykiss</i> >0.0109 mg/L [flow-through]; LC50 96 h <i>Oncorhynchus mykiss</i> 94.5 - 271 mg/L [static]; LC50 96 h <i>Lepomis macrochirus</i> >0.1 mg/L [flow-through]; LC50 96 h <i>Pimephales promelas</i> >100 mg/L [static]
Invertebrate:	EC50 48 hr <i>Daphnia magna</i> 0.0059 mg/L



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Ethylene glycol	107-21-1
Fish:	LC50 96 h Oncorhynchus mykiss 41000 mg/L; LC50 96 h Oncorhynchus mykiss 14 - 18 mL/L [static]; LC50 96 h Lepomis macrochirus 27540 mg/L [static]; LC50 96 h Oncorhynchus mykiss 40761 mg/L [static]; LC50 96 h Pimephales promelas 40000 - 60000 mg/L [static]; LC50 96 h Poecilia reticulata 16000 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata 6500 - 13000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 46300 mg/L IUCLID
4,4-Dimethyloxazolidine	Mixture
Fish:	LC50 96 hr Rainbow trout 95 mg/L [flow-through]
2-Amino-2-methyl-1-propanol mixture	Mixture
Fish:	LC50 96 h Lepomis macrochirus 190 mg/L [static]
Algae:	EC50 72 h Desmodesmus subspicatus 520 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 193 mg/L IUCLID
2-Butoxyethanol mixture	Mixture
Fish:	LC50 96 h Lepomis macrochirus 1490 mg/L [static]; LC50 96 h Lepomis macrochirus 2950 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L EPA
Silica, amorphous	7631-86-9
Fish:	LC50 96 h Brachydanio rerio 5000 mg/L [static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 440 mg/L IUCLID
Invertebrate:	EC50 48 h Ceriodaphnia dubia 7600 mg/L IUCLID



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Zinc borate	138265-88-0
Fish:	LC50 96 hr Oncorhynchus mykiss 2.4 mg/L
Zinc phosphate	7779-90-0
Fish:	LC50 96 hr Oncorhynchus mykiss 0.14 - 0.26 mg/L
Invertebrate:	EC50 48 hr Daphnia magna 0.04 - 0.86 mg/L
2,2,4-Trimethylpentane-1,3-diol monoisobutyrate	25265-77-4
Fish:	LC50 96 h Pimephales promelas 30 mg/L
Algae:	EC50 72 h Pseudokirchneriella subcapitata 18.4 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.

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



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

TDG Information:

UN#: Not regulated

IMDG 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.

Ethylene glycol	107-21-1
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
Chlorinated paraffins	Trade Secret	No	Yes	No	No	No
Ethylene glycol	107-21-1	Yes	Yes	Yes	Yes	Yes
Clay compound	Trade Secret	No	Yes	Yes	Yes	Yes
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes
2-Amino-2-methyl-1-propanol mixture	Mixture	No	Yes	No	Yes	Yes
Titanium dioxide	Mixture	No	Yes	Yes	Yes	Yes
2-Butoxyethanol mixture	Mixture	Yes	Yes	Yes	Yes	Yes
Silica, amorphous	7631-86-9	Yes	Yes	Yes	Yes	Yes
Mica	12001-26-2	Yes	Yes	Yes	Yes	Yes



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer

Clay compound	Trade Secret
Carc:	carcinogen , 10/1/1988 (airborne particles of respirable size)
Titanium dioxide	Mixture
Carc:	carcinogen , 9/2/2011 (airborne, unbound particles of respirable size)

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

Ethylene glycol	107-21-1
	1 %
Clay compound	Trade Secret
	1 %
2-Butoxyethanol mixture	Mixture
	1 %
Silica, amorphous	7631-86-9
	1 %
Mica	12001-26-2
	1 %

Component Analysis - Inventory

Nonylphenol polyethylene glycol ether (Trade Secret)

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

Chlorinated paraffins (Trade Secret)

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



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

Ethylene glycol (107-21-1)

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

Clay compound (Trade Secret)

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

Limestone (1317-65-3)

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

4,4-Dimethyloxazolidine (Mixture)

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

2-Amino-2-methyl-1-propanol mixture (Mixture)

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

Titanium dioxide (Mixture)

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

Hydroxyethyl cellulose (9004-62-0)

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	Yes



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

2-Butoxyethanol mixture (Mixture)

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

Silica, amorphous (7631-86-9)

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

Mica (12001-26-2)

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

Zinc borate (138265-88-0)

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

Zinc phosphate (7779-90-0)

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

2,2,4-Trimethylpentane-1,3-diol monoisobutyrate (25265-77-4)

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

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 2* Fire: 0 Reactivity: 0

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



Safety Data Sheet

Material Name: RTA-50

Product #: 304168

NFPA Ratings

Health: 2 Fire: 0 Reactivity: 0

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

Summary of Changes

New SDS: May 22, 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, 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.