Safety Data Sheet GenTite RRS

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **All Purpose Sealant**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Construction Sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer • 26 Century Boulevard, Suite 205,
Nashville, Tennessee 37214

800-443-4272 • GenTite.com

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

Manufacturer • (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Skin Irritation 2 - H315
Skin Sensitization 1 - H317
Eye Irritation 2 - H319
Acute Toxicity Inhalation 4 - H332
Respiratory Sensitization 1 - H334
Carcinogenicity 2 - H351

DSD/DPD • Toxic (T)
Irritant (Xi)
Carcinogenic Substances - Category 3
R23, R36/37/38, R40, R42/43

2.2 Label Elements

CLP

DANGER

Hazard statements • H315 - Causes skin irritation

H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351 - Suspected of causing cancer.

Precautionary statements

Prevention

- P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing mist/vapours/spray.
P264 - Wash thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.
P285 - In case of inadequate ventilation wear respiratory protection.

Response

- P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P362 - Take off contaminated clothing and wash before reuse.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P321 - Specific treatment, see supplemental first aid information.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P308+P313 - IF exposed or concerned: Get medical advice/attention.

Storage/Disposal

- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information

- 11.5 percent of this product consists of an ingredient of unknown toxicity.

DSD/DPD

Risk phrases

- R23 - Toxic by inhalation.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R42/43 - May cause sensitisation by inhalation and skin contact.
R40 - Limited evidence of a carcinogenic effect.

Safety phrases

- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 - Wear suitable protective clothing.
S37 - Wear suitable gloves.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53 - Avoid exposure - obtain special instructions before use.

2.3 Other Hazards

CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 4 - H227
Skin Irritation 2 - H315

Skin Sensitization 1 - H317
Eye Irritation 2 - H319
Acute Toxicity Inhalation 4 - H332
Respiratory Sensitization 1 - H334
Carcinogenicity 2 - H351
Specific Target Organ Toxicity Repeated Exposure 2 - H373

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements

- Combustible liquid - H227
Causes skin irritation - H315
May cause an allergic skin reaction - H317
Causes serious eye irritation - H319
Harmful if inhaled - H332
May cause allergy or asthma symptoms or breathing difficulties if inhaled - H334
Suspected of causing cancer. - H351
May cause damage to organs - Liver/Kidneys through prolonged or repeated exposure - H373

Precautionary statements

Prevention

- Obtain special instructions before use. - P201
Do not handle until all safety precautions have been read and understood. - P202
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210
Do not breathe mist/vapours/spray. - P260
Wash thoroughly after handling. - P264
Use only outdoors or in a well-ventilated area. - P271
Contaminated work clothing should not be allowed out of the workplace. - P272
Wear protective gloves/protective clothing/eye protection/face protection. - P280
In case of inadequate ventilation wear respiratory protection. - P285

Response

- In case of fire: Use appropriate media for extinction. - P370+P378
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P341
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. - P342+P311
If on skin: Wash with plenty of water .
Take off contaminated clothing and wash before reuse. - P362
If skin irritation or rash occurs: Get medical advice/attention. - P333+P313
Specific treatment, see supplemental first aid information. - P321
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
If eye irritation persists: Get medical advice/attention. - P337+P313
IF exposed or concerned: Get medical advice/attention. - P308+P313
Get medical advice/attention if you feel unwell. - P314

Storage/Disposal

- Store in a well-ventilated place. Keep cool. - P403+P235
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

Supplemental information

- 12.55 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Combustible Liquids - B3
  Very Toxic - D1A
  Other Toxic Effects - D2A
  Other Toxic Effects - D2B

2.2 Label elements

WHMIS

- Combustible Liquids - B3
  Very Toxic - D1A
  Other Toxic Effects - D2A
  Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Limestone	**CAS:**1317-65-3 **EC Number:**215-279-6	10% TO 30%	NDA	**EU DSD/DPD:** Self Classified: Xn R48/20 **EU CLP:** Self Classified: STOT RE 2 (Lungs, Inhl), H373 **OSHA HCS 2012:** STOT RE 2 (Lungs, Inhl)	NDA
Titanium dioxide	**CAS:**13463-67-7 **EC Number:**236-675-5	3% TO 7%	NDA	**EU DSD/DPD:** Self Classified - Carc. Cat. 3 R40 **EU CLP:** Self Classified: Carc. 2, H351 **OSHA HCS 2012:** Carc. 2	NDA
Talc	**CAS:**14807-96-6	3% TO 7%	NDA	**EU DSD/DPD:** Self Classified: T R48/20 **EU CLP:** Self Classified: STOT RE 1 (Lungs, Inhl), H372 **OSHA HCS 2012:** STOT RE 1 (Lungs, Inhl)	NDA
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	**CAS:**53306-54-0 **EINECS:**258-469-4	3% TO 7%	NDA	**EU DSD/DPD:** Not Classified **EU CLP:** Not Classified **OSHA HCS 2012:** Not Classified	NDA

Stoddard solvent	**CAS:**8052-41-3 **EC Number:**232-489-3	1% TO 5%	Inhalation-Rat LC50 • >1400 ppm 8 Hour (s)	**EU DSD/DPD:** Annex VI, Table 3.2: Carc.Cat.2 R45 Muta.Cat.2 R46 Xn R65 **EU CLP:** Annex VI, Table 3.1: Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304 **OSHA HCS 2012:** Flam. Liq. 3; Eye Irrit. 2B; Skin Irrit. 2; STOT RE 2 (Liver, Kidneys); STOT SE 3: Narc.; Asp. Tox. 1	Carcinogen and mutagen classifications do not apply because this ingredient contains less than 0.1% benzene.
Benzene, 2,6-diisocyanato-1-methyl-	**CAS:**91-08-7 **EC Number:**202-039-0	0.1% TO 1%	NDA	**EU DSD/DPD:** Annex VI, Table 3.2: T+ R26 Xi R36/37/38 Carc.Cat.3 R40 R42/43 R52-53 **EU CLP:** Annex VI, Table 3.1: Carc. 2, H351; Acute Tox. 2 *, H330; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Aquatic Chronic 3, H412 **OSHA HCS 2012:** Carc. 2; Skin Sens. 1; Resp. Sens. 1; STOT SE 3: Resp. Irrit.; Skin Irrit. 2; Eye Irrit. 2	NDA
Benzene, 2,4-diisocyanato-1-methyl-	**CAS:**584-84-9 **EC Number:**209-544-5	<= 0.1%	NDA	**EU DSD/DPD:** Annex VI, Table 3.2: T+ R26 Xi R36/37/38 Carc.Cat.3 R40 R42/43 R52-53 **EU CLP:** Annex VI, Table 3.1: Carc. 2, H351; Acute Tox. 2, H330; Eye Irrit. 2, H319, ; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Aquatic Chronic 3, H412 **OSHA HCS 2012:** Carc. 2; Skin Sens. 1; Resp. Sens. 1; Eye Irrit. 2; Skin Irrit. 2; Acute Tox. 1 (inhl); STOT SE 3: Resp. Irrit.	NDA

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention immediately if symptoms occur.

Skin
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

Eye
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion
- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Carbon dioxide, dry chemical, dry sand, foam, water spray.

Unsuitable Extinguishing Media
- Water with full jet.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Vapors may form explosive mixtures with air.
Vapors may travel to source of ignition and flash back.
Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
Vapor explosion hazard indoors, outdoors or in sewers.
Runoff to sewer may create fire or explosion hazard.
Containers may explode when heated.

Hazardous Combustion Products
- carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black.

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Keep unauthorized personnel away. Ventilate enclosed areas. Do not walk through spilled material. Do not breath mist/vapours/spray. Wear appropriate personal protective equipment.

Emergency Procedures
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Stay upwind. Keep out of low areas. Keep unauthorized personnel away. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Prevent entry into waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
All equipment used when handling the product must be grounded.
Stop leak if you can do it without risk.
Prevent entry into waterways, sewers, basements or confined areas.
A vapor suppressing foam may be used to reduce vapors.
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Use clean non-sparking tools to collect absorbed material.
Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling
- Keep away from fire - No Smoking. Keep away from heat, sparks and open flame. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not breath mist/vapours/spray. Wear appropriate personal protective equipment, avoid direct contact.

7.2 Conditions for safe storage, including any incompatibilities

Storage
- Keep container tightly closed. Store in a cool, dry, well-ventilated place.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	**ACGIH**	**Australia**	**Belgium**	**Canada Alberta**	**Canada British Columbia**
Benzene, 2,4-diisocyanato-1-methyl- (584-84-9)	STELs	0.02 ppm STEL	Not established	0.02 ppm STEL; 0.14 mg/m3 STEL	Not established	Not established
	TWAs	0.005 ppm TWA	Not established	0.005 ppm TWA; 0.037 mg/m3 TWA	0.005 ppm TWA; 0.04 mg/m3 TWA	0.005 ppm TWA
	Ceilings	Not established	Not established	Not established	0.02 ppm Ceiling; 0.1 mg/m3 Ceiling	0.01 ppm Ceiling
Benzene, 2,6-diisocyanato-1-methyl- (91-08-7)	STELs	0.02 ppm STEL	Not established	0.02 ppm STEL; 0.14 mg/m3 STEL	Not established	Not established
	TWAs	0.005 ppm TWA	Not established	0.005 ppm TWA; 0.037 mg/m3 TWA	0.005 ppm TWA; 0.04 mg/m3 TWA	0.005 ppm TWA
	Ceilings	Not established	Not established	Not established	0.02 ppm Ceiling; 0.1 mg/m3 Ceiling	0.01 ppm Ceiling
Stoddard solvent (8052-41-3)	TWAs	100 ppm TWA	790 mg/m3 TWA	100 ppm TWA; 533 mg/m3 TWA	100 ppm TWA; 572 mg/m3 TWA	290 mg/m3 TWA
	STELs	Not established	Not established	Not established	Not established	580 mg/m3 STEL
Talc (14807-96-6)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	2.5 mg/m3 TWA (containing no asbestos fibers)	2 mg/m3 TWA	2 mg/m3 TWA (respirable particulate)	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate)
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	10 mg/m3 TWA (containing no asbestos and <1% crystalline silica, inhalable dust)	10 mg/m3 TWA	10 mg/m3 TWA	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction)
Limestone (1317-65-3)	TWAs	Not established	Not established	10 mg/m3 TWA	10 mg/m3 TWA	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction)
	STELs	Not established	Not established	Not established	Not established	20 mg/m3 STEL

Exposure Limits/Guidelines (Con't.)						
	Result	**Canada Manitoba**	**Canada New Brunswick**	**Canada Northwest Territories**	**Canada Nova Scotia**	**Canada Nunavut**
Benzene, 2,4-diisocyanato-1-methyl- (584-84-9)	STELs	0.02 ppm STEL	0.02 ppm STEL; 0.14 mg/m3 STEL	Not established	0.02 ppm STEL	Not established
	TWAs	0.005 ppm TWA	0.005 ppm TWA; 0.036 mg/m3 TWA	Not established	0.005 ppm TWA	Not established
	Ceilings	Not established	Not established	0.02 ppm Ceiling; 0.14 mg/m3 Ceiling	Not established	0.02 ppm Ceiling; 0.14 mg/m3 Ceiling

Benzene, 2,6-diisocyanato-1-methyl- (91-08-7)	STELs	0.02 ppm STEL	Not established	Not established	0.02 ppm STEL	Not established
	TWAs	0.005 ppm TWA	Not established	Not established	0.005 ppm TWA	Not established
Stoddard solvent (8052-41-3)	TWAs	100 ppm TWA	100 ppm TWA; 525 mg/m3 TWA	100 ppm TWA; 575 mg/m3 TWA	100 ppm TWA	100 ppm TWA; 575 mg/m3 TWA
	STELs	Not established	Not established	125 ppm STEL; 720 mg/m3 STEL	Not established	125 ppm STEL; 720 mg/m3 STEL
Talc (14807-96-6)	TWAs	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)	3 mg/m3 TWA (respirable mass); 6 mg/m3 TWA (total mass)	2 mg/m3 TWA (respirable fraction, particulate matter containing no Asbestos and <1% Crystalline silica)	3 mg/m3 TWA (respirable mass); 6 mg/m3 TWA (total mass)
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	10 mg/m3 TWA	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	10 mg/m3 TWA	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica)	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	Not established	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)

Exposure Limits/Guidelines (Con't.)

	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	Denmark
Benzene, 2,4-diisocyanato-1-methyl- (584-84-9)	TWAs	0.005 ppm TWA (designated substances regulation, listed under Isocyanates, organic compounds); 0.005 ppm TWA (applies to workplaces to which the designated substances regulation does not apply)	Not established	0.005 ppm TWA	Not established	0.005 ppm TWA; 0.035 mg/m3 TWA
	Ceilings	0.02 ppm Ceiling (designated substances regulation, listed under Isocyanates, organic compounds)	Not established	Not established	0.02 ppm Ceiling; 0.14 mg/m3 Ceiling	Not established
	STELs	0.02 ppm STEL	Not established	Not established	Not established	Not established
	TWAs	0.005 ppm TWA (designated substances regulation, listed under Isocyanates, organic compounds); 0.005 ppm TWA (applies to	Not established	0.005 ppm TWA	Not established	0.005 ppm TWA; 0.035 mg/m3 TWA

Benzene, 2,6-diisocyanato-1-methyl- (91-08-7)		workplaces to which the designated substances regulation does not apply)				
	Ceilings	0.02 ppm Ceiling (designated substances regulation, listed under Isocyanates, organic compounds)	Not established	Not established	Not established	Not established
	STELs	0.02 ppm STEL	Not established	Not established	Not established	Not established
Stoddard solvent (8052-41-3)	TWAs	525 mg/m3 TWA (140°C Flash aliphatic solvent)	100 ppm TWAEV; 525 mg/m3 TWAEV	100 ppm TWA	100 ppm TWA; 575 mg/m3 TWA	25 ppm TWA (=<20% Aromatic compounds); 145 mg/m3 TWA (=<20% Aromatic compounds)
	STELs	Not established	Not established	Not established	150 ppm STEL; 720 mg/m3 STEL	Not established
Talc (14807-96-6)	TWAs	2 mg/m3 TWA (containing no Asbestos and <1% Crystalline silica, respirable)	3 mg/m3 TWAEV (respirable dust)	2 mg/m3 TWA (respirable fraction)	20 mppcf TWA	0.3 fiber/cm3 TWA (containing fibers)
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m3 TWA	30 mppcf TWA (as Ti); 10 mg/m3 TWA (as Ti)	6 mg/m3 TWA (as Ti)
	STELs	Not established	Not established	Not established	20 mg/m3 STEL (as Ti)	Not established
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWAEV (Limestone, containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m3 TWA	30 mppcf TWA; 10 mg/m3 TWA	Not established
	STELs	Not established	Not established	Not established	20 mg/m3 STEL	Not established

Exposure Limits/Guidelines (Con't.)

	Result	Germany TRGS	NIOSH	OSHA
Benzene, 2,4-diisocyanato-1-methyl- (584-84-9)	Ceilings	Not established	Not established	0.02 ppm Ceiling; 0.14 mg/m3 Ceiling
	TWAs	0.005 ppm TWA AGW (ceiling factor 4, exposure factor 1); 0.035 mg/m3 TWA AGW (ceiling factor 4, exposure factor 1)	Not established	Not established
Benzene, 2,6-diisocyanato-1-methyl- (91-08-7)	TWAs	0.005 ppm TWA AGW (ceiling factor 4, exposure factor 1); 0.035 mg/m3 TWA AGW (ceiling factor 4, exposure factor 1)	Not established	Not established

Stoddard solvent (8052-41-3)	TWAs	Not established	350 mg/m3 TWA	500 ppm TWA; 2900 mg/m3 TWA
	Ceilings	Not established	1800 mg/m3 Ceiling (15 min)	Not established
Talc (14807-96-6)	TWAs	Not established	2 mg/m3 TWA (containing no Asbestos and <1% Quartz, respirable dust)	Not established
Titanium dioxide (13463-67-7)	TWAs	Not established	Not established	15 mg/m3 TWA (total dust)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

Exposure Control Notations

Germany DFG

•Talc (14807-96-6): **Carcinogens:** (Category 3B (could be carcinogenic for man, free of asbestos fibers))

•Titanium dioxide (13463-67-7): **Carcinogens:** (Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles))

•Benzene, 2,6-diisocyanato-1-methyl- (91-08-7): **Carcinogens:** (Category 3A (could be carcinogenic for man)) | **Sensitizers:** (respiratory sensitizer)

•Benzene, 2,4-diisocyanato-1-methyl- (584-84-9): **Carcinogens:** (Category 3A (could be carcinogenic for man)) | **Sensitizers:** (respiratory sensitizer)

8.2 Exposure controls

Engineering Measures/Controls

- This sealant is designed to be used outdoors, in roofing applications. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear chemical splash safety goggles.

Skin/Body

- Wear appropriate chemical resistant gloves.

Environmental Exposure Controls

- In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
STEL = Short Term Exposure Limits are based on 15-minute exposures
TWAEV = Time-Weighted Average Exposure Value
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Pigmented paste with a slight odor.
Color	Pigmented	Odor	Slight
Odor Threshold	Data lacking		
General Properties			

Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	1.2 Water=1	Density	Data lacking
Water Solubility	Insoluble	Viscosity	Data lacking
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	89 C(192.2 F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Not relevant.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat. Keep away from sources of ignition – No Smoking.

10.5 Incompatible materials

- This product will react with strong oxidizing agents, reducing agents, strong acids and bases.

10.6 Hazardous decomposition products

- Material does not decompose under normal working conditions.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Limestone (10% TO 30%)	1317-65-3	**Multi-dose Toxicity:** Inhalation-Rat TCLo • 84 mg/m³ 4 Hour(s) 40 Week(s)-Intermittent; *Lungs, Thorax, or Respiration*:**Fibrosis (interstitial)**; *Liver*:**Other changes**; *Kidney, Ureter, and Bladder*:**Other changes**; Inhalation-Rat TCLo • 250 mg/m³ 2 Hour(s) 24 Week(s)-Intermittent; *Lungs, Thorax, or Respiration*:**Fibrosis, focal (pneumoconiosis)**
Talc (3% TO 7%)	14807-96-6	**Irritation:** Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 17 mg/m³ 6 Hour(s) 26 Day(s)-Intermittent; *Lungs, Thorax, or Respiration*:**Other changes**; **Tumorigen / Carcinogen:** Inhalation-Rat TCLo • 18 mg/m³ 6 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Lungs, Thorax, or Respiration*:**Bronchiogenic carcinoma**; *Endocrine*:**Tumors**

Titanium dioxide (3% TO 7%)	13463-67-7	**Irritation:** Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 250 mg/m³ 6 Hour(s) 4 Week(s)-Intermittent; *Lungs, Thorax, or Respiration*:**Chronic pulmonary edema**; *Lungs, Thorax, or Respiration*:**Other changes**
Stoddard solvent (1% TO 5%)	8052-41-3	**Irritation:** Eye-Human • 100 ppm • Mild irritation; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 330 ppm 65 Day(s)-Intermittent; *Kidney, Ureter, and Bladder*:**Changes in tubules (including acute renal failure, acute tubular necrosis)**; *Blood*:**Other changes**
Benzene, 2,4-diisocyanato-1-methyl- (<= 0.1%)	584-84-9	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 5800 mg/kg; *Gastrointestinal*:**Other changes**; Inhalation-Rat LC50 • 14 ppm 4 Hour(s); *Sense Organs and Special Senses:Eye*:**Lacrimation**; *Behavioral*:**Excitement**; *Lungs, Thorax, or Respiration*:**Dyspnea**; Skin-Rabbit LD50 • >16 mL/kg; **Irritation:** Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg-Open • Severe irritation; **Multi-dose Toxicity:** Ingestion/Oral-Rat TDLo • 15 g/kg 10 Day(s)-Intermittent; *Gastrointestinal*:**Other changes**; *Liver*:**Other changes**; *Related to Chronic Data*:**Death in the Other Multiple Dose data type field**; Inhalation-Rat TCLo • 26 ppm 6 Hour(s) 5 Week(s)-Intermittent; *Lungs, Thorax, or Respiration*:**Structural or functional change in trachea or bronchi**; *Lungs, Thorax, or Respiration*:**Chronic pulmonary edema**; *Related to Chronic Data*:**Death in the Other Multiple Dose data type field**; **Mutagen:** Micronucleus test • Inhalation-Rat • 0.05 ppm 6 Hour(s) 4 Week(s)

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Acute Toxicity - Inhalation 4 - ATEmix(inhl)= 12016 ppm **OSHA HCS 2012** • Acute Toxicity - Inhalation 4 - ATEmix (inhl)=12250ppm
Aspiration Hazard	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Carcinogenicity	**EU/CLP** • Carcinogenicity 2 **OSHA HCS 2012** • Carcinogenicity 2
Germ Cell Mutagenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Skin corrosion/Irritation	**EU/CLP** • Skin Irritation 2 **OSHA HCS 2012** • Skin Irritation 2
Skin sensitization	**EU/CLP** • Skin Sensitizer 1 **OSHA HCS 2012** • Skin Sensitizer 1
STOT-RE	**EU/CLP** • Data lacking **OSHA HCS 2012** • Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Toxicity for Reproduction	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Respiratory sensitization	**EU/CLP** • Respiratory Sensitizer 1 **OSHA HCS 2012** • Respiratory Sensitizer 1
Serious eye damage/Irritation	**EU/CLP** • Eye Irritation 2 **OSHA HCS 2012** • Eye Irritation 2

Potential Health Effects

Inhalation

Acute (Immediate)
- Harmful if inhaled. May cause respiratory irritation.

Chronic (Delayed)
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin

Acute (Immediate)
- Causes skin irritation. May cause skin sensitization. Symptoms include redness and skin rash.

Chronic (Delayed)
- No data available.

Eye

Acute (Immediate)
- Causes serious eye irritation.

Chronic (Delayed)
- No data available.

Ingestion

Acute (Immediate)
- Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic (Delayed)
- Not a likely route of exposure.

Other

Chronic (Delayed)
- Prolonged or repeated exposure may cause damage to liver and kidneys.

Carcinogenic Effects
- May cause cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Group 2B-Possible Carcinogen	Not Listed
Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Group 2B-Possible Carcinogen	Not Listed
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen	Evidence of Carcinogenicity

Key to abbreviations
LC = Lethal Concentration
LD = Lethal Dose
TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

- Poorly biodegradable. The product is unstable in water. The elimination data also refer to products of hydrolysis.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
ADN	NDA	Not Regulated	NDA	NDA	NDA
ADR/RID	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- Acute, Chronic, Fire

State Right To Know				
Component	**CAS**	**MA**	**NJ**	**PA**
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	No	No	No
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Yes	Yes	Yes
Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Yes	Yes	Yes
Limestone	1317-65-3	Yes	Yes	Yes
Stoddard solvent	8052-41-3	Yes	Yes	Yes
Talc	14807-96-6	Yes	Yes	Yes
Titanium dioxide	13463-67-7	Yes	Yes	Yes

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**EU EINECS**	**EU ELNICS**	**TSCA**
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Yes	No	Yes	No	Yes

Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Yes	No	Yes	No	Yes
Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Yes	No	Yes	No	Yes
Limestone	1317-65-3	No	Yes	Yes	No	Yes
Stoddard solvent	8052-41-3	Yes	No	Yes	No	Yes
Talc	14807-96-6	Yes	No	Yes	No	Yes
Titanium dioxide	13463-67-7	Yes	No	Yes	No	Yes

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Bulgaria

Environment

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	D1A, D2A, D2B
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	D1A, D2A, D2B
• Stoddard solvent	8052-41-3	B3, D2B
• Talc	14807-96-6	D2A
• Titanium dioxide	13463-67-7	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS Division website.)
• Limestone	1317-65-3	D2A
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	0.1 %
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	0.1 %
• Stoddard solvent	8052-41-3	1 %
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Curing agents; Fillers; Raw materials
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Curing agents; Fillers; Raw materials
• Stoddard solvent	8052-41-3	Solvents in a wide range of products including paints and coatings, dyes (listed under Certain oils and Coal-derived substances)
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	T+; R26 Xi; R36/37/38 Carc.Cat.3; R40 R42/43 R52-53
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	T+; R26 Xi; R36/37/38 Carc.Cat.3; R40 R42/43 R52-53
• Stoddard solvent	8052-41-3	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	0.1%<=C: R:42
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	0.1%<=C: R:42
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	T+ R:26-36/37/38-40-42/43-52/53 S:(1/2)-23-36/37-45-61
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	T+ R:26-36/37/38-40-42/43-52/53 S:(1/2)-23-36/37-45-61
• Stoddard solvent	8052-41-3	T R:45-46-65 S:53-45
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	C, 2
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	C, 2
• Stoddard solvent	8052-41-3	P
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	S:(1/2)-23-36/37-45-61
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	S:(1/2)-23-36/37-45-61
• Stoddard solvent	8052-41-3	S:53-45
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Environment

Germany - TA Luft - Types and Classes

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	organic Substance: 5.2.5, Class I
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	organic Substance: 5.2.5, Class I
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed

• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	0.10 kg/h Mass flow (Class I); 20 mg/m3 Mass concentration (Class I)
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	0.10 kg/h Mass flow (Class I); 20 mg/m3 Mass concentration (Class I)
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	ID Number 1315, not considered hazardous to water
• Titanium dioxide	13463-67-7	ID Number 1345, not considered hazardous to water

• Limestone	1317-65-3	ID Number 317, not considered hazardous to water
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	ID Number 511, hazard class 2 - hazard to waters
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	ID Number 512, hazard class 2 - hazard to waters
• Stoddard solvent	8052-41-3	ID Number 775, hazard class 2 - hazard to waters
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	ID Number 1359, hazard class 1 - low hazard to waters

Germany - Water Classification (VwVwS) - Annex 3

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed

• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	100 lb final RQ (listed under Benzene, 1,3-diisocyanatomethyl-); 45.4 kg final RQ (listed under Benzene, 1,3-diisocyanatomethyl-)
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	100 lb final RQ (listed under Benzene, 1,3-diisocyanatomethyl-); 45.4 kg final RQ (listed under Benzene, 1,3-diisocyanatomethyl-)
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	100 lb EPCRA RQ
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	100 lb EPCRA RQ
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	500 lb TPQ
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	100 lb TPQ
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	0.1 % de minimis concentration
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	0.1 % de minimis concentration
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed

• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	carcinogen, initial date 9/2/11 (airborne, unbound particles of respirable size)
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed

• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	Not Listed
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	
• Benzene, 2,6-diisocyanato-1-methyl-	91-08-7	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Talc	14807-96-6	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester	53306-54-0	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H304 - May be fatal if swallowed and enters airways
  H330 - Fatal if inhaled
  H335 - May cause respiratory irritation
  H340 - May cause genetic defects.
  H350 - May cause cancer.
  H372 - Causes damage to organs through prolonged or repeated exposure.
  H373 - May cause damage to organs through prolonged or repeated exposure.
  H412 - Harmful to aquatic life with long lasting effects

  R26 - Very toxic by inhalation.
  R45 - May cause cancer.
  R46 - May cause heritable genetic damage.
  R48/20 - Harmful: danger of serious damage to health by prolonged exposure through

inhalation.
R52 - Harmful to aquatic organisms.
R53 - May cause long-term adverse effects in the aquatic environment.
R65 - Harmful: may cause lung damage if swallowed.

Date - March 25, 2024

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Key to abbreviations

NDA = No Data Available