

SAFETY DATA SHEET

1. Identification

Material name: TREMPLY TPO WB BONDING ADHESIVE 5 GL Material: 423400 805

Recommended use and restriction on use

Recommended use: Adhesive Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S. Roofing 3735 Green Road Beachwood OH 44122 US

Contact person: Telephone: Emergency telephone number: EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

No symbol
No signal word.
not applicable
not applicable

Hazard(s) not otherwise classified (HNOC):

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	5 - <10%
Ammonium hydroxide	1336-21-6	0.1 - <1%

None.

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



4. First-aid measures	
Ingestion:	Rinse mouth thoroughly.
Inhalation:	Move to fresh air.
Skin Contact:	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Eye contact:	Rinse immediately with plenty of water.
Most important symptoms/effect	s, acute and delayed
Symptoms:	May cause skin and eye irritation.
Indication of immediate medical a	ttention and special treatment needed
Treatment:	Get medical attention if symptoms occur.
5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extingu	ishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	5
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.



Version: 1.0 Revision Date: 11/29/2017

Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities:	Store away from incompatible materials. Store in original tightly closed container.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit	Values	Source
Calcium Carbonate	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total dust.			-	Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Respirable				Contaminants (29 CFR 1910.1000) (02 2006)
fraction.				
Ammonium hydroxide	STEL	35 ppm		US. ACGIH Threshold Limit Values (2011)
	TWA	25 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air
			-	Contaminants (29 CFR 1910.1000) (02 2006)

Chemical name	Туре	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Ammonium hydroxide	STEL	35 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	25 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Ammonium hydroxide	TWA	25 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	35 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.	
Eye/face protection:	Wear goggles/face shield.	
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.	
Other:	No data available.	
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.	
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.	

9. Physical and chemical properties

Appearance

liquid
Viscous Liquid
Milky white
Ammonia odor
No data available.
No data available.
0 °C 32 °F
100 °C 212 °F
No data available.
Slower than n-Butyl Acetate
No
ve limits
No data available.
Vapors are heavier than air and may travel along the floor and in the bottom of containers.
1.1



Solubility(ies)	
Solubility in water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
10. Stability and reactivity	
Reactivity: No da	ata available.

Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Alcohols. Amines. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of Inhalation:	f exposure In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	Moderately irritating to skin with prolonged exposure.	
Eye contact:	Eye contact is possible and should be avoided.	
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.	
Cumuteme veleted to the physical, chemical and toxical evidence in the vectoristics		

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:

Not classified for acute toxicity based on available data.



Specified substance(s): Ammonium hydroxide	LD 50 (Rat): 350 mg/kg
Dermal Product:	Not classified for acute toxicity based on available data.
Inhalation Product:	Not classified for acute toxicity based on available data.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritat Product:	ion No data available.
Respiratory or Skin Sensitizatio Product:	n No data available.
Carcinogenicity Product:	No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified	
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified	
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.



Specific Target Organ Toxicity -	Single Exposure
Product:	No data available.
Specific Target Organ Toxicity -	Repeated Exposure
Product:	No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:	
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aquatic environment:	
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential	



Bioconcentration Factor (Product:	BCF) No data available.
Partition Coefficient n-octanol Product:	/ water (log Kow) No data available.
Mobility in soil:	No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	
Not Regulated	
CFR / DOT:	
Not Regulated	
IMDG:	
Not Regulated	
15. Regulatory information	
US Federal Regulations TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.	
CERCLA Hazardous Substa	nce List (40 CFR 302.4):
Chemical Identity	Reportable quantity

Chemical Identity	Reportable qua
Ammonium hydroxide	1000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Not listed.



SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Ammonium hydroxide	1000 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	10000 lbs
(Limestone)	
Ammonium hydroxide	10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65 No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

<u>Chemical Identity</u> Calcium Carbonate (Limestone)

US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Calcium Carbonate (Limestone)

US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Calcium Carbonate (Limestone)

US. Rhode Island RTK

<u>Chemical Identity</u> Calcium Carbonate (Limestone)

International regulations

Montreal protocol

not applicable

Stockholm convention

not applicable

Rotterdam convention

not applicable



Kyoto protocol

not applicable

VOC:

Regulatory VOC (less water and exempt solvent)	:	7 g/l
VOC Method 310	:	0.30 %



Inventory Status:

Australia AICS:

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

Philippines PICCS:

US TSCA Inventory:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

Mexico INSQ:

Ontario Inventory:

Taiwan Chemical Substance Inventory:

One or more components in this product are not listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.



16.Other information, including date of preparation or last revision

Revision Date:	11/29/2017
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.