

# SAFETY DATA SHEET

## Ready Bond Temp. Bond Insulation Spray Adhesive Canister

### 1. Identification

#### Product identifier

**Product name** Ready Bond Temp. Bond Insulation Spray Adhesive Canister

**Product number** USA. AP030005, AP030006, AP030007

#### Recommended use of the chemical and restrictions on use

**Application** Canister Spray Adhesive

#### Details of the supplier of the safety data sheet

**Supplier** Titan Adhesives / Adhesion Products  
22290 Challenger Drive  
Elkhart, IN 46514  
5749708425

#### Emergency telephone number

**Emergency telephone** Chemtrec: 1 800 424 9300

### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Flam. Aerosol 2 - H223

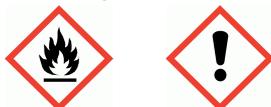
**Health hazards** Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H336

**Environmental hazards** Aquatic Acute 2 - H401 Aquatic Chronic 2 - H411

**Human health** The liquid may be irritating to eyes, respiratory system and skin. Symptoms following overexposure may include the following: Headache. Dizziness. Nausea, vomiting.

#### Label elements

##### Hazard symbols



**Signal word** Warning

**Hazard statements** H302+H332 Harmful if swallowed or if inhaled.  
H223 Flammable aerosol.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.  
P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.  
P302+P352 If on skin: Wash with plenty of water.  
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P412 Do not expose to temperatures exceeding 50°C/122°F.

## Ready Bond Temp. Bond Insulation Spray Adhesive Canister

**Supplemental label information** AT(o) 20.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.

**Contains** Heptane, Propane, Acetone

**Other hazards**

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

**Mixtures**

<p><b>Heptane</b> <span style="float: right;"><b>10-25%</b></span></p> <p>CAS number: 142-82-5</p> <p>M factor (Acute) = 1 <span style="margin-left: 150px;">M factor (Chronic) = 1</span></p>
<p><b>Classification</b></p> <p>Flam. Liq. 2 - H225</p> <p>Acute Tox. 4 - H302</p> <p>Acute Tox. 4 - H312</p> <p>Acute Tox. 4 - H332</p> <p>Skin Irrit. 2 - H315</p> <p>STOT SE 3 - H336</p> <p>Asp. Tox. 1 - H304</p> <p>Aquatic Acute 1 - H400</p> <p>Aquatic Chronic 1 - H410</p>
<p><b>Isobutane</b> <span style="float: right;"><b>10-25%</b></span></p> <p>CAS number: 75-28-5</p>
<p><b>Classification</b></p> <p>Flam. Gas 1 - H220</p> <p>Press. Gas, Compressed - H280</p>
<p><b>Propane</b> <span style="float: right;"><b>10-25%</b></span></p> <p>CAS number: 74-98-6</p>
<p><b>Classification</b></p> <p>Flam. Gas 1 - H220</p> <p>Press. Gas, Liquefied - H280</p> <p>Acute Tox. 4 - H332</p> <p>Simple Asphyxiant - USH03</p>

## Ready Bond Temp. Bond Insulation Spray Adhesive Canister

<b>Acetone</b>	<b>10-25%</b>
CAS number: 67-64-1	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
STOT SE 3 - H336	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Remove affected person from source of contamination. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.
<b>Ingestion</b>	Get medical attention immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Skin Contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Only remove contact lenses if the person is conscious, coherent and they can remove them themselves. If adhesive bonding occurs, do not force eyelids apart. Continue to rinse for at least 15 minutes. If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

#### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	May cause coughing and difficulties in breathing. May cause eye and respiratory system irritation. Overexposure may depress the central nervous system, causing dizziness and intoxication.
<b>Ingestion</b>	Aspiration hazard if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract. May Cause the following effects: Gastrointestinal symptoms, including upset stomach. Central nervous system depression. Nausea, vomiting. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Skin contact</b>	May be absorbed through the skin. Product has a defatting effect on skin. The liquid is irritating to eyes and skin. A single exposure may cause the following adverse effects: Dryness and/or cracking.
<b>Eye contact</b>	Causes serious eye irritation. Burns can occur. A single exposure may cause the following adverse effects: Pain. Conjunctivitis, irritation, tearing. Prolonged or repeated exposure may cause the following adverse effects: Irritation of eyes and mucous membranes. Prolonged contact causes serious eye and tissue damage.

### 5. Fire-fighting measures

## Ready Bond Temp. Bond Insulation Spray Adhesive Canister

### Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

### Special hazards arising from the substance or mixture

**Specific hazards** Pressurized container: Must not be exposed to temperatures above 50°C/120°F Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

### Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** For personal protection, see Section 8. No smoking, sparks, flames or other sources of ignition near spillage.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains. Contain spillage with sand, earth or other suitable non-combustible material.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Stop leak if possible without risk. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. Container must be kept tightly closed when not in use. Use explosion proof electric equipment. Avoid discharge into drains or watercourses or onto the ground.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container. Pressurized container: Must not be exposed to temperatures above 50°C/120°F

### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

## 8. Exposure controls/Personal protection

### Control parameters

### Occupational exposure limits

## Ready Bond Temp. Bond Insulation Spray Adhesive Canister

### Heptane

Long-term exposure limit (8-hour TWA): ACGIH 400 ppm

Short-term exposure limit (15-minute): ACGIH 500 ppm

Long-term exposure limit (8-hour TWA): OSHA 500 ppm 2000 mg/m<sup>3</sup>

### Isobutane

Long-term exposure limit (8-hour TWA): ACGIH 1000 ppm

Long-term exposure limit (8-hour TWA): NIOSH: National Institute of Occupational Safety and Health 800 ppm 1900 mg/m<sup>3</sup>

### Propane

Long-term exposure limit (8-hour TWA): NIOSH: National Institute of Occupational Safety and Health 1800 mg/m<sup>3</sup> 1000 ppm

Long-term exposure limit (8-hour TWA): OSHA 1800 ppm 1000 mg/m<sup>3</sup>

### Acetone

Long-term exposure limit (8-hour TWA): ACGIH 500 ppm

Short-term exposure limit (15-minute): ACGIH 750 ppm

A4

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 2400 mg/m<sup>3</sup>

Ceiling exposure limit: NIOSH: National Institute of Occupational Safety and Health 250 ppm 590 mg/m<sup>3</sup> vapour

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A4 = Not Classifiable as a Human Carcinogen.

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation. Avoid inhalation of vapors and spray/mists. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.

#### Eye/face protection

Wear chemical splash goggles.

#### Hand protection

Use protective gloves.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

#### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

#### Respiratory protection

If exposure levels are likely to be exceeded, use a half face mask fitted with an organic vapor filter for short term low level exposures. For long term or high level exposures, a supplied air respirator should be used.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Aerosol.
Color	Clear
Odor	Aromatic hydrocarbons.

## Ready Bond Temp. Bond Insulation Spray Adhesive Canister

<b>Initial boiling point and range</b>	-31.6°C/-24.88°F
<b>Flash point</b>	-104.44°C/-155.9°F
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 1.2 % Upper flammable/explosive limit: 12.8 %
<b>Relative density</b>	0.78
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 397 g/l.

### 10. Stability and reactivity

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidizing agents. Reducing agents.
<b>Hazardous decomposition products</b>	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrogen chloride (HCl). Nitrous gases (NO <sub>x</sub> ).

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 1,023.44

##### Acute toxicity - dermal

ATE dermal (mg/kg) 2,814.45

##### Acute toxicity - inhalation

ATE inhalation (gases ppm) 22,500.0

ATE inhalation (vapours mg/l) 18.62

#### Toxicological information on ingredients.

#### Heptane

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 500.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 29.3

Species Rat

## Ready Bond Temp. Bond Insulation Spray Adhesive Canister

ATE inhalation (vapours mg/l) 11.0

### Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause drowsiness or dizziness

**General information** Absorbtion of large quantities may cause: Narcosis. Death.

### Isobutane

**Toxicological effects** No information available.

### Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

**Inhalation** Suffocation (asphyxiant) hazard

**Skin Contact** Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin.

**Eye contact** Spray will evaporate and cool quickly and may cause frostbite or cold burns if in contact with skin.

### Propane

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)** 1,442.0

**Species** Rat

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 1,442.0

**Species** Rat

**ATE inhalation (gases ppm)** 4,500.0

**ATE inhalation (vapours mg/l)** 11.0

### Acetone

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,800.0

**Species** Rat

**ATE oral (mg/kg)** 500.0

#### Acute toxicity - dermal

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**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 20,000.0

**Species** Rabbit

**ATE dermal (mg/kg)** 1,100.0

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 76.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 11.0

### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause drowsiness or dizziness

**Inhalation** Mucosal irritations. Absorption.

**Ingestion** Irritating. May cause nausea, stomach pain and vomiting. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**Skin Contact** This product is moderately irritating. May be absorbed through the skin. Repeated exposure may cause skin dryness or cracking.

**Eye contact** This product is strongly irritating. Risk of corneal clouding.

**Route of exposure** Inhalation Skin and/or eye contact

**Target Organs** Eyes

## 12. Ecological information

## 13. Disposal considerations

### Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## 14. Transport information

**Air transport notes** Cargo aircraft only. <75kg

### UN Number

**UN No. (TDG)** 3501

**UN No. (IMDG)** 3501

**UN No. (ICAO)** 3501

**UN No. (DOT)** 3501

### UN proper shipping name

**Proper shipping name (TDG)** Chemical Under Pressure, Flammable, N.O.S. (Isobutane, Propane)

**Proper shipping name (IMDG)** Chemical Under Pressure, Flammable, N.O.S. (Isobutane, Propane)

## Ready Bond Temp. Bond Insulation Spray Adhesive Canister

**Proper shipping name (ICAO)** Chemical Under Pressure, Flammable, N.O.S. (Isobutane, Propane)

**Proper shipping name (DOT)** Chemical Under Pressure, Flammable, N.O.S. (Isobutane, Propane)

**Transport hazard class(es)**

**DOT hazard class** 2.1

**Transport labels**



**Packing group**

**Packing group (International)** Not applicable.

### 15. Regulatory information

**National regulations** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

**Guidance** CHIP for everyone HSG228.  
Workplace Exposure Limits EH40.  
Safety Data Sheets for Substances and Preparations.  
Approved Classification and Labelling Guide (Sixth edition) L131.

**US Federal Regulations**

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**  
Present.

**SARA (311/312) Hazard Categories**  
Present.

**US State Regulations**

**Massachusetts "Right To Know" List**  
Present.

**Rhode Island "Right To Know" List**  
Present.

**Minnesota "Right To Know" List**  
Present.

**New Jersey "Right To Know" List**  
Present.

**Pennsylvania "Right To Know" List**  
Present.

**Inventories**

**Canada - DSL/NDSL**  
DSL  
Present.

**US - TSCA**  
Present.

## Ready Bond Temp. Bond Insulation Spray Adhesive Canister

### 16. Other information

<b>Revision date</b>	2/28/2020
<b>Revision</b>	7
<b>Supersedes date</b>	2/28/2020
<b>SDS No.</b>	22688
<b>Hazard statements in full</b>	<p>H220 Extremely flammable gas.</p> <p>H223 Flammable aerosol.</p> <p>H225 Highly flammable liquid and vapor.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312 Harmful in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H400 Very toxic to aquatic life.</p> <p>H401 Toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>USH03 May displace oxygen and cause rapid suffocation</p>
<b>ACA HMIS Health rating.</b>	Slight hazard. (1)
<b>ACA HMIS Flammability rating.</b>	Extremely flammable. (4)
<b>ACA HMIS Physical hazard rating.</b>	Normally stable. (0)
<b>ACA HMIS Personal protection rating.</b>	B

#### DIRECTIONS FOR USE

#### PRODUCT LOGO

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, many of which are solely within the user's knowledge and control, the user is responsible for determining whether the usage of this product is fit for a particular purpose and suitable for the user's method of use or application. It is essential that the user, not the manufacturer, evaluates this product to determine whether it is fit for a particular purpose and suitable for the user's method of use or application.