SAFETY DATA SHEET
Emergency Phone: Chemtrec 800-424-9300

SDS Name: G220 Simple Saver Pressure Sensitive Sealant™
Issue Date: October 26, 2015

Section 1 - Product and Company Information

Product Name:	G220 Simple Saver Pressure Sensitive Sealant™
Company Identification:	Thermal Design, Inc, 601 N. Main St. Madison, NE 68748
Information phone:	(402) 454-6591
Application:	Aerosol Spray

Section 2 - Hazards Identification

Classification of the substance or mixture:

Physical Hazards:	Aerosol 2 - H223, H229 Press. Gas, Compressed - H280
Health hazards:	Acute Tox. 3 - H301 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Carc. 2 - H351 STOT SE 3 -H335, H336 STOT RE 2 - H373
Environmental hazards:	Not Classified
Human health:	The liquid may be irritating to eyes, respiratory system and skin. Symptoms following overexposure may include the following: Head ache. Dizziness. Nausea, vomiting.

Label Elements

Signal word:	Danger
Hazard statements:	H223 Flammable aerosol. H229 Pressurized container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statements:	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P280 Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 If exposed or concerned: Get medical advice/attention. P410+P403 Protect from sunlight. Store in a well-ventilated place.
Supplemental label information	
Contains	AT(o) 15.0% of the mixture consists of ingredient(s) of unknown acute oral toxicity. Methylene Chloride, Propane, Isobutane
Other hazards:	This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredientsProduct Name:

Substances

Mixtures

Methylene Chloride CAS number:	75-09-2 REACH registration number: 01-2119480404-41-XXXX 30-60%
Classification:	Acute Tox. 3 - H301, Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Eye Irrit. 2A - H319 Carc. 2 - H351. STOT SE 3 - H335, H336 STOT RE 2 - H373
Isobutane	CAS number: 75-28-5 10-30%
Classification:	Flam. Gas 1 - H220. Press. Gas, Compressed - H280
Propane:	CAS number: 74-98-6 10-30%
Classification:	Flam. Gas 1 - H220, Press. Gas, Liquefied - H280 Acute Tox. 4 - H332 Simple Asphyxiant - USH03

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information:	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.
Inhalation:	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.
Ingestion:	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.
Skin Contact:	Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.
Eye contact:	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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation:	Symptoms following overexposure may include the following: Upper respiratory irritation. Difficulty in breathing. Drowsiness. May cause nausea, headache, dizziness and intoxication.
Ingestion:	Harmful if swallowed. Prolonged or repeated exposure may cause the following adverse effects: Gastrointestinal symptoms, including upset stomach. Diarrhea.
Skin contact:	Prolonged contact may cause redness, irritation and dry skin.
Eye contact:	Risk of serious damage to eyes. Symptoms following overexposure may include the following: Irritation and redness, followed by blurred vision.

5. Fire-fighting measures

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 /120°F Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up.

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 spill age with sand, earth or other suitable noncombustible material.

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

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 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Methylene Chloride

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm

Short-term exposure limit (15-minute): OSHA 125 ppm

A3

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/m3

Propane

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

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

ACGIH = American Conference of Governmental Industrial Hygienists.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

OSHA = Occupational Safety and Health Administration.

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! Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Wash promptly with soap and water if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection:	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance:	Liquid
Color:	Green
Odor Sweetish:	Pungent.
Flash point:	~ -156°F Not specified.
Upper/lower flammability or explosive limits:	Lower flammable/explosive limit: 1.8 g/100 g Upper flammable/explosive limit: 9.5 g/100 g
Vapour density:	~ 9.2
Relative density:	~ 1.2
Solubility(ies):	Negligibly soluble in water
Volatile organic compound:	This product contains a maximum VOC content of 425 g/l.

10. Stability and reactivity

Stability Stable at normal ambient temperatures and when used as recommended.

Conditions to avoid:	Avoid heat, flames and other sources of ignition. Reducing agents.
Avoid contact with the following materials:	Oxidizing agents.
Materials to avoid:	Acids. Alkalis. Oxidizing materials. Reducing agents.
Hazardous decomposition products:	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen chloride (HCl). Nitrous gases (NOx).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral ATE oral (mg/kg):	170.0
Acute toxicity - dermal ATE dermal (mg/kg):	2,200.0
Acute toxicity - inhalation ATE inhalation (gases ppm):	30,000.0
ATE inhalation (vapours mg/l):	73.33333333

Toxicological information on ingredients.

Methylene Chloride

Acute toxicity - oral

Acute toxicity oral (LD mg/kg):	2,000.0

Species Rat

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LDmg/kg):	2,000.0

Species:	Rat
ATE dermal (mg/kg):	1,100
Acute toxicity - inhalation	
(LC_{50}vapours mg/l):	52.0
Species:	Rat
ATE inhalation (vapours mg/l):	11.0
Carcinogenicity	
Carcinogenicity:	Cancinogenicity - rat - inhalation Limited evidence of carcinogenicity in animal studies
Target organ for carcinogenicity	
Tumerigenic:	Carcinogenic by RTECS criteria.
Endochrine:	Tumors
IARC carcinogenicity:	IARC Group 2B Possibly carcinogenic to humans.
NTP carcinogenicity:	Reasonably anticipated to be a human carcinogen.
Specific target organ toxicity - single exposure	
STOT - single exposure:	May cause respiratory irritation. May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure:	Inhalation - May cause damage to organs through prolonged or repeat ed exposure-Central nervous system Oral - May cause damage to organs through prolonged or repeated exposure -Liver, blood.
General information RTECS: PA8050000	
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_{50} gases ppmV):	1,442.0
Species:	Rat
Acute toxicity inhalation (LC_{50} vapours mg/l):	1,442.0
Species:	Rat
ATE inhalation (gases ppm):	4,500
ATE inhalation (vapours mg/l):	11.0

12. Ecological Information
NA

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:	1. <75kg, 2. <150kg
UN Number	
UN No.(DOT)	Limited Quantity <1L, Aerosol
UN No.(ICAO)	1950
UN proper shipping name	
Proper shipping name (DOT):	1950 Aerosols, Flammable (Isobutane, Propane)
Proper shipping name(IMDG):	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.
Proper shipping name (ICAO):	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

Transport hazard class(es)
DOT hazard class: 2.1
Transport labels

Packing group
Not applicable.
Special precautions for user

15. Regulatory information
International Regulations
Inventories US - TSCA Present
Isobutane, Methylene Chloride: Present

16. Other information

Revision date:	5/14/2015
Revision:	1
Supersedes date:	8/11/2014
SDS No.	21170
Hazard statements in full:	H223 Flammable aerosol. H229 Pressurized container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. USH03 May displace oxygen and cause rapid suffocation
ACA HMIS Health rating:	Moderate hazard. (2)
ACA HMIS Physical hazard rating:	Normally stable. (0)
ACA HMIS Personal protection rating:	B
ACA HMIS Flammability rating:	Extremely flammable. (4)