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

SDS Name: G524+ Simple Saver High Tack Sealant™
Issue Date: June 17, 2022

SECTION 1 – PRODUCT AND COMPANY INFORMATION

SDS Name: G524+ Simple Saver High Tack Sealant™
Application: Solvent-based Sealant
Company Information: Thermal Design, Inc., 601 N Main St., Madison, NE 68748
InformationPhone: 402-454 6591

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

Physical hazards: Flam. Liq. 2 - H225
Health hazards: Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Repr. 2A - H319 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304
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

Signal word: Danger

Pictogram

Hazard statements :
H225 Highly flammable liquid and vapor.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:
P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with plenty of water.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P301+P312 Call a poison center/doctor if you feel unwell.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235 Store in a well-ventilated place. Keep cool.

Contains : Heptane, Toluene, Hexane (and isomers), Heptane, Methylcyclopentane, Cyclohexane
Other hazards: This product does not contain any substances classified as PBT or vPvB. Contains 33.4 % of components with unknown hazards to the aquatic environment.

SECTION 3 –COMPOSITION / INFORMATION ON INGREDIENTS

Toluene 10-25%	Hexane (and isomers) 10-25%
CAS number: 108-88-3 Classification: Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	CAS number: - M factor (Acute) = 1 Classification: Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Repr. 2 - H361f STOT SE 3 - H336 STOT RE 2 - H373

	Aquatic Chronic 2 - H411
n-Hexane 10-25%	Methylcyclopentane 5-10%
CAS number: 110-54-3 M factor (Acute) = 1 Classification: Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Repr. 2 - H361f STOT SE 3 - H336 STOT RE 2 - H373 Aquatic Chronic 2 - H411	CAS number: 96-37-7 Classification: Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335 Asp. Tox. 1 - H304
Heptane 5-10% CAS number: 142:82-5 M factor (Acute) = 1 M factor (Chronic) = 1	Cyclohexane CAS number: 110-82-7 M factor (Acute) = 1 M factor (Chronic) = 1
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 – H400 Aquatic Chronic 1 - H410	Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 – H400 Aquatic Chronic 1 - H410

SECTION 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. Remove contaminated clothing. Wash skin thoroughly with soap and water. 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

Inhalation: 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.

Ingestion: 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. Nausea, vomiting. Central nervous system depression. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Skin contact: May be absorbed through the skin. Product has a defatting effect on skin. The liquid is irritating to eyes and skin. Remove contaminated clothing. A single exposure may cause the following adverse effects: Dryness and/or cracking.

Eye contact:	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.

SECTION 5 – FIRE FIGHTING MEASURES

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:	For personal protection, see Section 8. No smoking, sparks, flames or other sources of ignition near spillage.
Environmental precautions:	Avoid discharge into drains. Contain spillage with sand, earth or other suitable non-combustible material.
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.

SECTION 7 – HANDLING AND STORAGE

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.
Storage precautions:	Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container.
Specific End Uses	The identified uses for this product are detailed in section "1.Identification" under "Application".

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Toluene Long-term exposure limit (8-hour TWA): ACGIH 20 ppm A4 Short-term exposure limit (15-minute): NIOSH: National Institute of Occupational Safety and Health 150 ppm 560 mg/m³ Ceiling Value: OSHA 300 ppm Long-term exposure limit (8-hour TWA): OSHA 200 ppm

Hexane (and isomers) Long-term exposure limit (8-hour TWA): ACGIH 50 ppm Sk Ceiling Value: OSHA_TRANS 500 ppm 1800 mg/m³ Long-term exposure limit (8-hour TWA): OSHA 50 ppm 180 mg/m³

n-Hexane Long-term exposure limit (8-hour TWA): ACGIH 50 ppm Sk Ceiling Value: OSHA_TRANS 500 ppm 1800 mg/m³ Long-term exposure limit (8-hour TWA): OSHA 50 ppm 180 mg/m³

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/m³

Cyclohexane Long-term exposure limit (8-hour TWA): ACGIH 100 ppm ACGIH = American Conference of Governmental Industrial Hygienists. A4 = Not Classifiable as a Human Carcinogen. Sk = Danger of cutaneous absorption. OSHA = Occupational Safety and Health Administration

Exposure Controls

Protective Gear:

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 productcontains 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 safety glasses.
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: shift	DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work 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:	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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<u>Information on basic physical and chemical properties</u>

Appearance:	Liquid.
Color:	Colourless to amber.
Odor:	Characteristic. Solvent.
Working Temperatures:	40° F – 120° F
Relative density:	> 1
Volatile organic compound:	This product contains a maximum VOC content of 413 g/l.
Weight:	< 7 lbs/gallon.

SECTION 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. Avoid contact with the following materials: Oxidizing agents. Reducing agents.
Hazardous decomposition products:	Fire creates: Vapours/gases/fumes of: Oxides of nitrogen. Oxides of carbon. Sulfur Oxides. Various Hydrocarbons.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity – oral. ATE oral (mg/kg) 1,012.14574899. Acute toxicity - dermal ATE dermal (mg/kg) 2,657.00483092. Acute toxicity - inhalation ATE inhalation (vapours mg/l) 26.57004831

Toxicological information on ingredients: Tolune & Hexane (and isomers).

Toluene : Acute toxicity - oral Acute toxicity oral (LD_{50} mg/kg) 636.0 Species Rat ATE oral (mg/kg) 500.0 Acute toxicity - dermal Acute toxicity dermal (LD_{50} mg/kg) 12,124.0 Species Rabbit ATE dermal (mg/kg) 1,100.0 Acute toxicity - inhalation Acute toxicity inhalation (LC_{50} vapours mg/l) 28.1 Species Rat ATE inhalation (vapours mg/l) 11.0

Hexane (and isomers): Acute toxicity - oral Acute toxicity oral (LD_{50} mg/kg) 25,000.0 Species Rat ATE oral (mg/kg) 500.0 Acute toxicity - dermal Acute toxicity dermal (LD_{50} mg/kg) 2,000.0 Species Rabbit ATE dermal (mg/kg) 1,100.0 Acute toxicity - inhalation Acute toxicity inhalation (LC_{50} vapours mg/l) 171.6 Species Rat ATE inhalation (vapours mg/l) 11.0

Reproductive toxicity - fertility Suspected of damaging fertility. Specific target organ toxicity - single exposure.

STOT - single exposure: May cause drowsiness or dizziness. Target organs: Central nervous system. Specific target organ toxicity - repeated exposure.

STOT - repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Target organs:	Central nervous system. Aspiration hazard. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
General information:	After absorption. Tiredness. Narcosis. After long term exposure to the chemical: CNS disorders, paralysis symptoms. (It generally applies to aliphatic hydrocarbons with 6 - 18 carbon atoms that they cause pneumonia, in some cases also pulmonary edema, upon direct inhalation, i.e. in conditions that can

	occur only in very special circumstances (nebulizations, spraying, inhalation of aerosols and similar.)) Absorbtion of large quantities may cause: Narcosis. Possible risk of adverse reproductive effects.
Inhalation:	May cause drowsiness or dizziness. Vapors irritate the respiratory system.
Ingestion Irritating:	May cause nausea, stomach pain and vomiting.
Skin Contact:	The product is irritating to eyes and skin.
Eye contact:	Risk of corneal clouding.
Route of exposure:	Inhalation Skin and/or eye contact
Target Organs:	Eyes Skin Respiratory system, lungs Central nervous system Peripheral nervous system.
Toxicological information on ingredients:	n-Hexane, Methylcyclopentane, Heptane ,Cyclohexane.

N-Hexane: Acute toxicity - oral Acute toxicity oral (LDõHmg/kg) 25,000.0 Species Rat ATE oral (mg/kg) 500.0 Acute toxicity - dermal Acute toxicity dermal (LDõHmg/kg) 2,000.0 Species Rabbit ATE dermal (mg/kg) 1,100.0 Acute toxicity - inhalation Acute toxicity inhalation (LCõHvapours mg/l) 171.6 Species Rat ATE inhalation (vapours mg/l) 11.0

Reproductive toxicity Reproductive toxicity - fertility Suspected of damaging fertility. Specific target organ toxicity - single exposure STOT - single exposure May cause drowsiness or dizziness Target organs Central nervous system Specific target organ toxicity - repeated exposure STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure. Target organs Central nervous system Aspiration hazard Aspiration hazard Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

General information After absorption. Tiredness. Narcosis. After long term exposure to the chemical: CNS disorders, paralysis symptoms.

Absorbtion of large quantities may cause: Narcosis. Possible risk of adverse reproductive effects.

Inhalation:	May cause drowsiness or dizziness. Vapors irritate the respiratory system.
Ingestion Irritating:	May cause nausea, stomach pain and vomiting.
Skin Contact:	The product is irritating to eyes and skin.
Eye contact:	Risk of corneal clouding.
Route of exposure:	Inhalation Skin and/or eye contact
Target Organs:	Eyes Skin Respiratory system, lungs Central nervous system Peripheral nervous system

Methylcyclopentane: Acute toxicity - oral ATE oral (mg/kg) 500.0

Heptane: Acute toxicity - oral Acute toxicity oral (LDõHmg/kg) 5,000.0 Species Rat ATE oral (mg/kg) 500.0 Acute toxicity – derma
Acute toxicity dermal (LDõHmg/kg) 2,000.0 Species Rabbit ATE dermal (mg/kg) 1,100.0 Acute toxicity - inhalation Acute toxicity inhalation (LCõHvapours mg/l) 29.3 Species Rat 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.

Cyclohexane: Acute toxicity - oral Acute toxicity oral (LDõHmg/kg) 12,705.0 Species Rat Acute toxicity - dermal Acute toxicity dermal (LDõHmg/kg) 2,000.0 Species Rabbit Acute toxicity - inhalation Acute toxicity inhalation (LCõHvapours mg/l) 34,000.0 Species Rat Serious eye damage/irritation Serious eye damage/irritation Slightly irritating. Aspiration hazard Aspiration hazard May be fatal if swallowed and enters airways. Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness. Ingestion May be harmful if swallowed. Aspiration hazard if swallowed.

Skin Contact May be absorbed through the skin. Causes skin irritation.
Eye contact Causes eye irritation.

SECTION 12 – ECOLOGICAL INFORMATION

Not Applicable

SECTION 13 – DISPOSAL INFORMATION

Waste treatment methods

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

SECTION 14 – TRANSPORT INFORMATION

Air transport notes:	IATA Pkg Inst 353 1. 5L, 2. 60L
UN No. (DOT):	1133 or Limited Quantity <5L
UN No. (ICAO):	1133
Proper shipping name (ICAO):	Sealant
Proper shipping name (TDG):	Sealant
Proper shipping name (DOT):	Sealant
DOT hazard class:	3

Packing group (International)	II
ICAO packing group	II

SECTION 15 – REGULATORY INFORMATION

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

Toluene:	Final CERCLA RQ: 1000(454) pounds (Kilograms) Hexane (and isomers) Final CERCLA RQ: 5000(2270) pounds (Kilograms) n-Hexane Final CERCLA RQ: 5000(2270) pounds (Kilograms).

SARA 313 Emission Reporting

Present. Toluene 1.0 %, Hexane (and isomers) 100%, n-Hexane 100%

SARA (311/312) Hazard Categories

Methylcyclopentane: Fire, Hazard, Acute, Health hazard
Heptane: Fire, Acute, Chronic, Health hazard
Toluene: Fire, Chronic, Acute, Health hazard
Hexane (and isomers): Acute, Chronic, Health hazard, Fire
n-Hexane: Acute, Chronic, Health hazard, Fire

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins	Developmental toxin. Toluene
Massachusetts "Right To Know" List New Jersey "Right To Know" List Pennsylvania "Right To Know" List	Present. Methylcyclopentane, Heptane, Toluene, Hexane (and isomers), n-Hexane
Inventories Canada - DSL/NDSL	DSL Present. Heptane, Toluene, Hexane (and isomers), n-Hexane.
US - TSCA	Present. Heptane, Toluene, Hexane (and isomers), n-Hexane.

SECTION 16 – OTHER INFORMATION

Hazard statements in full	
H225 Highly flammable liquid and vapor. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation.	H361d Suspected of damaging the unborn child. H361f Suspected of damaging fertility. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H401 Toxic to aquatic life.

H336 May cause drowsiness or dizziness.	H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

ACA HMIS Health rating:	Slight hazard. (2)
ACA HMIS Flammability rating:	Ignites easily. (3)
ACA HMIS Physical hazard rating:	Normally stable. (0)
ACA HMIS Personal protection rating:	B