SAFETY DATA SHEET

Identification			
Identification			
Product Identifier:	GFC34 and GF	C34-RC2	
Recommended Use:	GFC34/GFC34-	RC2 is a Gas Concrete Nailer F	uel Cell for use to fuel the GCN-MEPMAG and
	GCNMEP concr	ete-nailer tools, as well as other	r major brands'.
Use Restrictions:			nstallation use according to package directions,
			n Simpson Strong-Tie catalogs or online at
	strongtie.com.		
y Identification	-		
Company:	Simpson Strong	-Tie Company Inc.	
Address:	5956 W. Las Po	sitas Blvd.	
	Pleasanton, CA	94588	
Phone:	1-800-999-5099		
Website:	www.strongtie.c	om	
Emergency:	1-800-535-5053		
	1-352-323-3500		
For most current SDS, pleas			
Hazard Identification			
Information			
GFC34/GFC34-RC2 Gas Co	oncrete Nailer Fuel Cell is a	gas-based, fuel cell for use with	the GCN-MEPMAG and GCNMEP concrete na
			20-120°F (-6 - 49°C). The product has been
			t covers hazards and responses for the safe use
and handling of GFC34/GFC			
ssification			
Classification according to			
	<u>1 Hazcollizo iz (GHS)</u>		
Dhysical Hazards	Elammahla Casos	Category 1	H220: Extremely flammable gas
Physical Hazards:	Flammable Gases	Category 1	H220: Extremely flammable gas
Physical Hazards:	Flammable Gases Gases Under Pressure	Category 1 Liquefied Gas	H280: Contains gas under pressure; may
	Gases Under Pressure		
Health Hazards:	Gases Under Pressure Not Classified.		H280: Contains gas under pressure; may
	Gases Under Pressure Not Classified.		H280: Contains gas under pressure; may
Health Hazards: Environmental Hazards:	Gases Under Pressure Not Classified. Not Classified.	Liquefied Gas	H280: Contains gas under pressure; may explode if heated
Health Hazards:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten	Liquefied Gas ts can cause cold burns (frostbit	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns,
Health Hazards: Environmental Hazards:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. F	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow	Liquefied Gas ts can cause cold burns (frostbit	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. F	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. F	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. F	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. F	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms: GHS Label Elements Contains:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms: <u>GHS Label Elements</u>	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau
Health Hazards: Environmental Hazards: Main Symptoms: <u>GHS Label Elements</u> Contains: Signal Word:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath Propane, Isobut DANGER!	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. H ing, or have an anesthetic effect Flammable Compressed Gas tane, Propylene, n-Butane	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau t.
Health Hazards: Environmental Hazards: Main Symptoms: <u>GHS Label Elements</u> Contains: Signal Word:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath Propane, Isobut DANGER! H220: H280:	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. F ing, or have an anesthetic effect Flammable Compressed Gas rane, Propylene, n-Butane Extremely flammable gas.	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau t.
Health Hazards: Environmental Hazards: Main Symptoms: GHS Label Elements GHS Label Elements Signal Word: Hazard Statements:	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath Propane, Isobut DANGER! H220: H280:	Liquefied Gas ts can cause cold burns (frostbit y skin, blisters, and numbness. H ing, or have an anesthetic effect Flammable Compressed Gas tane, Propylene, n-Butane Extremely flammable gas. Contains gas under pressur	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau t.
Health Hazards: Environmental Hazards: Main Symptoms: GHS Label Elements GHS Label Elements Contains: Signal Word: Hazard Statements: Precautionary Statemen	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath dizziness, difficulty breath Propane, Isobut DANGER! H220: H280: ts:	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. F ing, or have an anesthetic effect Flammable Compressed Gas rane, Propylene, n-Butane Extremely flammable gas.	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau t.
Health Hazards: Environmental Hazards: Main Symptoms: GHS Label Elements GHS Label Elements Contains: Signal Word: Hazard Statements: Precautionary Statemen	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath dizziness, difficulty breath Propane, Isobut DANGER! H220: H280: ts: P102:	Liquefied Gas ts can cause cold burns (frostbit y skin, blisters, and numbness. H ing, or have an anesthetic effect Flammable Compressed Gas tane, Propylene, n-Butane Extremely flammable gas. Contains gas under pressur Keep out of reach of children Read label before use.	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau t.
Health Hazards: Environmental Hazards: Main Symptoms: GHS Label Elements GHS Label Elements Contains: Signal Word: Hazard Statements: Precautionary Statemen	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath Propane, Isobut DANGER! H220: H280: ts: P102: P103:	Liquefied Gas ts can cause cold burns (frostbit y skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau t. re; may explode if heated. n. y precautions have been read and understood.
Health Hazards: Environmental Hazards: Main Symptoms: GHS Label Elements GHS Label Elements Contains: Signal Word: Hazard Statements: Precautionary Statemen	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath Propane, Isobut DANGER! H220: H280: ts: P102: P103: P202:	Liquefied Gas ts can cause cold burns (frostbit y skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau t.
Health Hazards: Environmental Hazards: Main Symptoms: GHS Label Elements GHS Label Elements Contains: Signal Word: Hazard Statements: Precautionary Statemen	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath Propane, Isobut DANGER! H220: H220: H220: H220: P102: P103: P202: P210:	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau t. re; may explode if heated. n. y precautions have been read and understood.
Health Hazards: Environmental Hazards: Main Symptoms: GHS Label Elements GHS Label Elements Contains: Signal Word: Hazard Statements: Precautionary Statemen	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath Propane, Isobut DANGER! H220: H280: ts: P102: P103: P202: P210: P235:	Liquefied Gas ts can cause cold burns (frostbit y skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, digh concentrations released into the air may cau t. re; may explode if heated. n. y precautions have been read and understood. urfaces, sparks, open flames, and other ignition
Health Hazards: Environmental Hazards: Main Symptoms: GHS Label Elements GHS Label Elements Contains: Signal Word: Hazard Statements: Precautionary Statemen	Gases Under Pressure Not Classified. Not Classified. Direct contact with conten red/white/blue/gray-yellow dizziness, difficulty breath Propane, Isobut DANGER! H220: H220: H220: H220: P102: P103: P202: P210:	Liquefied Gas ts can cause cold burns (frostbit v skin, blisters, and numbness. H ing, or have an anesthetic effect	H280: Contains gas under pressure; may explode if heated te) on skin. Symptoms include burns, High concentrations released into the air may cau t. re; may explode if heated. n. y precautions have been read and understood. urfaces, sparks, open flames, and other ignition after use.

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	P282:	Wear cold insulating gloves and either face shield or eye protection.
Response:	P302+P336:	IF ON SKIN: Thaw frosted parts with lukewarm water. Do not rub affected area.
-	P315:	Get immediate medical advice/attention.
	P332+P313:	If skin irritation occurs: Get medical advice/attention.
	P363:	Wash contaminated clothing before reuse.
	P377:	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
	P381:	In case of leakage, eliminate all ignition sources.
Storage:	P403+P235:	Store in a well-ventilated place. Keep cool.
-	P405:	Store locked up.
	P410:	Protect from sunlight.
Disposal:	P501:	Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

GFC34/GFC34-RC2 is a simple asphyxiant. The product may displace oxygen content in the air, causing asphyxiation if released in a confined area. High concentrations may cause dizziness, difficulty breathing, or have an anesthetic effect. Direct contact with contents may cause cold burns (frostbite). Ensure that good work practices, and the necessary precautionary measures, are taken to maintain safe use of the product.

3. Composition Information

General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

List of abbreviations and symbols:

Classification: Globally Harmonized System Classifications

The full text for H-phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

Composition – All concentrations are in percent by weight unless otherwise indicated.

Chemical Name	Weight %	CAS Number	EC Number
Propane	0-99	74-98-6	200-827-9
Classifications: Flam. Gas 1: H220, Liq. Gas: H280			
Isobutane	1-60	75-28-5	200-857-2
Classifications: Flam. Gas 1: H220, Liq. Gas: H280			
Propylene	0-60	115-07-1	204-062-1
Classifications: Flam. Gas 1: H220, Liq. Gas: H280			
n-Butane	1-43	106-97-8	203-448-7
Classifications: Flam. Gas 1: H220, Liq. Gas: H280			

4. First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

outes of Exposure	
Eye Contact:	Immediately flush eyes with plenty of lukewarm water for at least 15 minutes while holding the eye open. Remove contact lenses if present and easy to do. If you experience redness, burning, blurred vision, or swelling, consult a physician.
Skin Contact:	Treat burned or frostbitten skin by washing or immersing the affected area in lukewarm water. If rash or irritation occurs consult a physician.
Ingestion:	This material is a gas under normal atmospheric conditions. Ingestion is unlikely. If ingestion occurs, rinse mouth immediately. Do not induce vomiting. Consult a physician immediately.
Inhalation:	Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, consult a physician .
lost Important Symptoms	

Most Important Symptoms

Direct contact with contents can cause cold burns. Symptoms include burns, red/white/blue/gray-yellow skin, blisters, and numbness. Inhalation when high concentrations are release into air may cause dizziness, difficulty breathing, or have an anesthetic effect.



Fire-Fighting Measures

Additional Information:

5.

Water spray may be useful in minimizing or dispersing vapors, and to protect personnel. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, and calculators which have not been certified as intrinsically safe). Vapors can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Possible creation of vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. If the container is not properly cooled, it can rupture in the heat of a fire. Closed containers exposed to extreme heat can rupture due to pressure buildup. During a fire, gases hazardous to health may be formed. Use standard fire-fighting procedures and consider the hazards of other involved materials. In case **Fire-Fighting Procedures:** of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Isolate fuel supply from fire. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out.

Accidental Release Measures

ersonal Precautions

Non-emergency personnel: Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Wear appropriate personal protective equipment.

Clean-Up Methods	
Small spills:	Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion- proof electrical equipment is recommended. Stop spill/release if it can be done with minimal risk. Wipe up with absorbent material (e.g. cloth, fleece). Place in leak-proof containers. Seal tightly for proper disposal. Clean surface thoroughly to remove residual contamination.
Large spills:	Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion- proof electrical equipment is recommended. Stay upwind and away from spill/release. Isolate danger area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Dike far ahead of spill to contain material. Use a non-combustible material like vermiculite, sand or earth to soak up the product. Place in leak-proof containers. Seal tightly for proper disposal. Water spray may be useful in minimizing or dispersing vapors.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Handling

In addition to limitations on storage temperature, fuel cells should be handled and stored so as to avoid puncture. Even when the fuel cell is empty, the can still contains flammable gas. Do not puncture fuel cell or expose fuel cell to high temperature. Do not attempt to refill the fuel cell. The use of explosion-proof electrical equipment is recommended and may be required. Keep away from open flames, hot surfaces, and sources of ignition. When using, do not eat, drink, or smoke. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Observe good industrial hygiene practices.

Storage

Store locked up. Pressurized container: must not be exposed to temperatures above 50°C (120°F). Ground all equipment containing material. Store in a cool, dry place out of direct sunlight. Keep away from heat and sources of ignition. Store in a well-ventilated place. Store in a closed container away from incompatible materials (See Section 10 of the SDS). Protect against physical damage. Keep out of the reach of children.

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8. Exposure Controls / Personal Protection

Personal Protective Equipment	
Protective Measure:	Wear appropriate personal protective equipment.
Eye Protection:	Wear goggles, safety glasses with side shields, or a full-face shield.
Hand Protection:	Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl. Cold insulating gloves recommended if direct contact with contents may occur.
Skin and Body Protection:	Wear long sleeve shirt/long pants and other clothing as required to minimize contact.
Respirator Protection:	The use of a respirator is not required during normal use of this product in properly ventilated areas. An NIOSH-approved respirator should be worn whenever workplace conditions warrant respirator use.
General Hygiene:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Engineering Controls

Mechanical ventilation or local exhaust ventilation is recommended. Ventilation rates should be matched to maintain airborne levels below recommended exposure limits. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.

Exposure Limits

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Propane (CAS 74-98-6)	1000 ppm	2500 ppm	1000 ppm
Isobutane (CAS 75-28-5)	N/E	N/E	800 ppm
Propylene (CAS 115-07-1)	N/E	500 ppm	N/E
n-Butane (CAS 106-97-8)	N/E	1000 ppm	800 ppm

9. Physical and Chemical Properties

Physical State:	Gas	Freezing/Melting Point:	-300.1°F (-184.5°C)
Form:	Compressed Gas	Boiling Point:	-43.6 - 32°F (-42 - 0°C)
Color:	Colorless	Flash Point:	184°F (84.4°C) Open Cup
Odor:	Odorless	Evaporation Rate:	N/E
Odor Threshold:	N/E	Specific Gravity:	0.54 kgs/Lt in liquid
pH:	N/A	VOC:	N/A
U. Flammability:	8.4/11%	L. Flammability:	1.9/2%
Vapor Pressure:	6.9bar at 21.2°C/17.8bar at 50°C	Vapor Density:	Approx. 1.5 (Air = 1)
Solubility:	Negligable	Kow:	N/A
Decomposition:	N/A	Viscosity:	N/A
10. Stability and Reactiv	ity		
Reactivity:	Stable under norma	I, ambient conditions of use a	nd storage. Flammable gas.
Chemical Stability:	Stable under norma	I, ambient conditions of use a	nd storage. Flammable gas.
Condition to Avoid:	Avoid all possible so	ources of ignition.	
Substances to Avoid:			etraoxide, Lithium nitrate, Sodium dioxide,
	Trifluormethyl hypof		
Hazardous Reactions		ization does not occur.	
Decomposition Produ	cts: Carbon dioxide, carl	bon monoxide, oxides of nitro	gen, other organic compounds.
11. Toxicological Inform	ation		
Likely Routes of Exposure			
Ingestion:	Ingestion is unlikely.		
Inhalation:	Inhalation may have	an anesthetic effect (simple a	asphyxiant).
Skin contact:	Contact with conten	ts can cause cold burns (frost	bite).
Eye contact:	Direct eye contact c	an cause serious irritation.	

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Strong-Tie



Symptoms:

In direct contact of contents with skin, symptoms include burns, red/white/blue/gray-yellow skin, blisters, and numbness. High concentrations released into the air can cause dizziness, difficulty breathing, or cause an anesthetic effect.

Information on Toxicological Effects

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Acute Effects

Toxicity:

Not expected to be acutely toxic. Occupational exposure to the substance or mixture may cause adverse effects.

Component		Species	Estimate	
GFC34/GFC34-RC2	Foxicity Estimate			
	Acute, Inhalation, LC50	Rat	1000 mg/l	
Skin corrosion/irritation:	Direct contact with skin can res	ult in cold burns, w	ith potential for tissue dama	qe.
Eye damage/eye irritation:	Direct contact with eyes can re-		-	0
Respiratory sensitization:	No data available.	,		
Skin sensitization:	No data available.			
Aspiration hazard:	No data available.			
Specific target organ toxicity				
Single exposure:	No data available.			
Chronic Effects				
Germ cell mutagenicity:	No data available.			
Carcinogenicity:	This product and its componen	ts are not considere	ed to be carcinogens by IAR	C. ACGIH. I
	OSHA.			-, ,
Reproductive toxicity:	No data available.			
Specific target organ toxicity				
Repeated exposure:	No data available.			

Carcinogen / Reproductive To	oxin / Mutagen I	nformation			
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Propylene (CAS 115-07-1)	0-60	3			
IARC: 1- Carcinogenic 2- Possibly carc NTP: Known to be human carcinogen of ACGIH – A1 – Confirmed carcinogen A CA65 – California Prop 65	r Reasonably anticip	ated to be a human c	arcinogen		-

Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with certain pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

12. Ecological Information

General Information

Information given is based on data on the components and the ecotoxicology of similar products. This material is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

Supporting Data

Persistence and degradability:	Ν
Bioaccumulative potential:	Ν
Mobility in soil:	Ν

Not readily biodegradable. Not expected to bioaccumulate. No data available.

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

Disposal Consideratio	ne				
Disposal Consideratio		not allow mater	al to drain into acura	rolwator augelias De	ant contominato nondo
Waste Disposal of Subs					not contaminate ponds, wate
					container in accordance with
Container Dienssel			nal/international regu		numbers of serees leantsing
Container Disposal:					numbers of aerosol containe
					iners may retain some produ d. Empty containers should b
				ecycling or disposal.	a. Emply containers should b
Transportation Information				coyoning of dioposal.	
-			adity Limited Quant	14. /	
DOT:	(Jonsumer Comm	odity, Limited Quant	ity	
UN number:	ι	JN1950			
UN proper shipping na	ame: A	erosols, Flamma	able, 2.1		
Transportation Class:	: 2	2.1			
Environment Hazard:	١	lo			
Required Labels:	2	2.1			
EmS (IMDG):	F	⁻ -D, S-U			
al Information					
Special precautions for	user: Re	ad safety instruc	tions, SDS and eme	rgency procedures be	fore handling.
Transport in bulk accor	rding to Annex II	of MARPOL 73/	78 and the IBC Coo	le: Not applicat	ble.
This information does not	t cover all specific	regulatory or on	erational requiremen	ts of this product. The	classifications for transporta
vary by container volume					
Regulatory Information	•		gulatione		
Regulatory information					
tatao					
	Th	ia productia a "H	azardaya Chamiaal	as defined by the OS	HA Hozord Communication
tates Federal Regulations:				as defined by the OS	HA Hazard Communication
		is product is a "H andard, 29 CFR 1		as defined by the OS	HA Hazard Communication
Federal Regulations:	Sta	andard, 29 CFR 1	1910.1200.	·	HA Hazard Communication
Federal Regulations: TSCA Section 12(b) Exp	Sta port Notification	andard, 29 CFR 1 (40 CFR 707, Su	1910.1200. I bpt. D):	Not regulated.	HA Hazard Communication
Federal Regulations: TSCA Section 12(b) Exp US. OSHA Specifically I	Sta port Notification Regulated Subst	andard, 29 CFR 1 (40 CFR 707, Su ances (29 CFR 2	1910.1200. Ibpt. D): 1910.1001-1050):	·	HA Hazard Communication
Federal Regulations: TSCA Section 12(b) Exp US. OSHA Specifically F CERCLA Hazardous Su	Sta port Notification Regulated Subst Ibstance List (40	andard, 29 CFR 1 (40 CFR 707, Su ances (29 CFR 1 CFR 302.4):	1910.1200. Ibpt. D): 1910.1001-1050):	Not regulated. Not listed.	HA Hazard Communication
Federal Regulations: TSCA Section 12(b) Exp US. OSHA Specifically I CERCLA Hazardous Su Superfund Amendment	Sta port Notification Regulated Subst Ibstance List (40	andard, 29 CFR 1 (40 CFR 707, Su ances (29 CFR 1 CFR 302.4):	1910.1200. Ibpt. D): 1910.1001-1050):	Not regulated. Not listed.	HA Hazard Communication
Federal Regulations: TSCA Section 12(b) Exp US. OSHA Specifically F CERCLA Hazardous Su Superfund Amendment Hazard Categories:	Sta port Notification Regulated Subst Ibstance List (40 is and Reauthori	andard, 29 CFR 7 (40 CFR 707, Su ances (29 CFR 7 CFR 302.4): zation Act of 19	1910.1200. Ibpt. D): 1910.1001-1050): 86 (SARA)	Not regulated. Not listed. Not listed.	HA Hazard Communication
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WARNING: This product can expose you to chemicals which are known to the State of California to cause cancer, reproductive harm, or other birth defects. For more information, go to www.P65Warnings.ca.gov.

SIMPSON

Canada

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

International

The product is classified and labeled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**

International Inventories

Australia	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC)
Europe	All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.
Japan	All components in this product are listed on the Inventory of Existing and New Chemical Substances (ENCS).
Korea	All components of this product are included on the Existing Chemicals List (ECL)
New Zealand	All components of this product are included on the New Zealand Inventory.
Philippines	All components in this product are listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS).
United States & Puerto Rico	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

16. Other Information

 Date Prepared or Revised:
 March 2022

 Supersedes:
 December 2020

 Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com.

Abbreviations

ACGIH: CAS No.: CERCLA: HPR:	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Registry Number Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA) Hazardous Product Regulations (Canada)
DOT:	Department of Transportation (U.S.)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
	High-Efficiency Particulate Air
HMIS: IARC:	Hazardous Materials Identification System
IARC: IATA:	International Agency for Research on Cancer
IMDG:	International Air Transport Association
NIOSH:	International Maritime Dangerous Goods code
	National Institute of Occupational Safety and Health (U.S.)
NFPA:	National Fire Protection Association (US)
NTP:	National Toxicology Program (US)
OSHA:	Occupational Safety and Health Administration (U.S.)
PEL:	Permissible Exposure Limit
SARA:	Superfund Amendments and Reauthorization Act (U.S. EPA)
STEL:	Short Term Exposure Limit (15 minute Time Weighted Average)
STOT:	Specific Target Organ Toxicity (GHS Classification)
TLV:	Threshold Limit Value

SAFETY DATA SHEET

TSCA:	Toxic Substances Control Act (U.S.)
TWA:	Time Weighted Average (exposure for 8-hour workday)
VOC:	Volatile Organic Compounds
WHMIS:	Canadian Workplace Hazardous Materials Information System

Full Text of H-Phrases Under Section 3

H220: Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

Disclaimer

Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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Internal

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XCGAS