

## SAFETY DATA SHEET

Product identifier	DensDefy® Liquid Flashing			
Other means of identification	None.			
Recommended use	Liquid Flashing/Sealant for Dens® Gypsum DensElement® Barrier System.	products, specifically liquid flashing	g component of	
<b>Recommended restrictions</b>	None known.			
Manufacturer/Importer/Supplier/	Distributor information			
Company name	Georgia-Pacific Canada LP			
Address	133 Peachtree Street, NE			
	Atlanta, GA 30303			
Telephone	Technical Information: 800.225.6119			
	(M)SDS Request: 404.652.5119			
E-mail	MSDSREQ@GAPAC.com			
Emergency phone number	Chemtrec - Emergency: 800.424.9300			
Physical hazards	Not classified.			
Health hazards	Sensitization, skin	Category 1		
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 3		
Label elements				
Signal word	Warning			
Hazard statement	May cause an allergic skin reaction. Harmful	to aquatic life with long lasting effe	ects.	
Precautionary statement				
Prevention	Avoid breathing mist/vapours. Contaminated workplace. Avoid release to the environment		ed out of the	
Response	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE/doctor. Specific treatment (see section 4 on the SDS).			
Storage	Store away from incompatible materials (see	e Section 10 of the SDS).		
Disposal	Dispose of contents/container in accordance regulations.	with local/regional/national/interna	ational	
Supplemental information	None.			
Other hazards	None known.			
Mixtures				
Chemical name	Common name and synonyms	CAS number	%	

Chemical hame	Common name and synonyms	CAS number	70
Calcium carbonate		471-34-1	30 - 40
LIMESTONE (CALCIUM CARBONATE)		1317-65-3	30 - 40
Stearic acid		57-11-4	5 - 10
Titanium dioxide		13463-67-7	5 - 10
TRIMETHOXYVINYLSILANE		2768-02-7	5 - 10

Chemical name	Common name and synonyms	CAS number	%
Bis(1,2,2,6,6-pentamethyl-4-piperid yl) Sebacate		41556-26-7	< 1
DECANEDIOIC ACID, METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERI DINYL ESTER		82919-37-7	< 1
Methyl Alcohol		67-56-1	0.25492
BIS (2-ETHYLHEXYL) ADIPATE		103-23-1	0.21
Other components below reportable	levels		20 - 30

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
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 and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for	Prevent product from entering drains.
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Precautions for safe handling

Use personal protection recommended in Section 8 of the SDS. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

## Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Occupational exposure limits ACGIH			
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	3 mg/m3	Respirable particles.
LIMESTONE (CALCIUM CARBONATE) (CAS 1317-65-3)	TWA	3 mg/m3	Respirable fraction.
US. ACGIH Threshold Limit Value Components	s (TLV) Type	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Inhalable particles.
LIMESTONE (CALCIUM CARBONATE) (CAS 1317-65-3)	TWA	10 mg/m3	Inhalable particles.
Methyl Alcohol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	2.5 mg/m3	Respirable finescale particles
		0.2 mg/m3	Respirable nanoscale particles
Canada. Alberta OELs (Occupatio Components	nal Health & Safety Code, Sc Type	hedule 1, Table 2), as amended Value	ł
•	TWA		
Calcium carbonate (CAS 471-34-1)	IWA	10 mg/m3	
LIMESTONE (CALCIUM CARBONATE) (CAS 1317-65-3)	TWA	10 mg/m3	
Methyl Alcohol (CAS 67-56-1)	STEL	328 mg/m3	
		250 ppm	
	TWA	262 mg/m3	
		200 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. British Columbia OELs. ( Regulation 296/97, as amended)	Occupational Exposure Limi	ts for Chemical Substances, O	ccupational Health and Safety
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
LIMESTONE (CALCIUM CARBONATE) (CAS 1317-65-3)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.

Canada. British Columbia OELs. (Occupa Regulation 296/97, as amended)	tional Exposure Limits for Chemica	al Substances, Occ	upational Health and Safety
Components	Туре	Value	Form
Methyl Alcohol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Canada. Manitoba OELs (Reg. 217/2006, T Components	The Workplace Safety And Health A Type	ct), as amended Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Inhalable particles.
LIMESTONE (CALCIUM CARBONATE) (CAS 1317-65-3)	TWA	10 mg/m3	Inhalable particles.
Methyl Alcohol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	2.5 mg/m3	Respirable finescale particles
		0.2 mg/m3	Respirable nanoscale particles
Canada. New Brunswick OELs: Threshold		1991 and 1997 ACG	IH TLVs and BEIs
Publication (New Brunswick Regulation 9 Components	1-191) Type	Value	
Methyl Alcohol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Ontario OELs. (Control of Expos	ure to Biological or Chemical Agen	ts), as amended	
Components	Туре	Value	
Methyl Alcohol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
TRIMETHOXYVINYLSILANE (CAS 2768-02-7)	STEL	60 mg/m3	
		10 ppm	
Canada. Quebec OELs. (Ministry of Labor	r - Regulation respecting occupatio	nal health and safe	ty), as amended
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Total dust.
LIMESTONE (CALCIUM CARBONATE) (CAS 1317-65-3)	TWA	10 mg/m3	Total dust.
Methyl Alcohol (CAS 67-56-1)	STEL	328 mg/m3	
		250 ppm	
	TWA	262 mg/m3	
		200 ppm	

Canada. Quebec OELs. (Mi Components	nistry of Labor	- Regulation respecting Type	-	nealth and safe lue	ety), as amended Form
Stearic acid (CAS 57-11-4)		TWA	10	ppm	
Titanium dioxide (CAS 13463-67-7)		TWA	10	mg/m3	Total dust.
Canada. Saskatchewan OE Components	Ls (Occupation	nal Health and Safety Re Type	-	, Table 21), as lue	amended
Calcium carbonate (CAS 471-34-1)		15 minute	20	mg/m3	
		8 hour	10	mg/m3	
LIMESTONE (CALCIUM CARBONATE) (CAS 1317-65-3)		15 minute	20	mg/m3	
		8 hour	10	mg/m3	
Methyl Alcohol (CAS 67-56-1)		15 minute	250	0 ppm	
		8 hour	200	0 ppm	
Titanium dioxide (CAS 13463-67-7)		15 minute	20	mg/m3	
		8 hour	10	mg/m3	
Biological limit values					
ACGIH Biological Exposure	e Indices (BEI)				
Components	Value	Determinant	Specimen	Sampling T	ime
Methyl Alcohol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*	
* - For sampling details, pleas					
Exposure guidelines	Occupational	Exposure Limits are not	relevant to the cu	urrent physical	form of the product.
Canada - Alberta OELs: Ski	-				
Methyl Alcohol (CAS 67- Canada - British Columbia	,		e absorbed throu	gh the skin.	
Methyl Alcohol (CAS 67- Canada - Manitoba OELs: S	,		e absorbed throu	gh the skin.	
Methyl Alcohol (CAS 67- Canada - Ontario OELs: Sk	,	Dange	r of cutaneous al	bsorption	
Methyl Alcohol (CAS 67-	•	Can be	e absorbed throu	gh the skin.	
Canada - Quebec OELs: Sk	-				
Methyl Alcohol (CAS 67- Canada - Saskatchewan OE	ELs: Can be abs	sorbed through the skin		-	
Methyl Alcohol (CAS 67- US ACGIH Threshold Limit			e absorbed throu	gh the skin.	
Methyl Alcohol (CAS 67-	56-1)	Dange	r of cutaneous al	bsorption	
Appropriate engineering controls	applicable, us maintain airbe	l ventilation should be use se process enclosures, lo orne levels below recomn maintain airborne levels to	cal exhaust venti nended exposure	ilation, or other e limits. If expo	engineering controls to
Individual protection measures Eye/face protection		onal protective equipme glasses with side shields (		e shield is reco	ommended.
Skin protection Hand protection	Wear approp	riate chemical resistant gl	loves.		
Other	Wear approp	riate chemical resistant cl	othing. Use of ar	n impervious ap	pron is recommended.
Respiratory protection		ufficient ventilation, wear	U U		
Thermal hazards		riate thermal protective cl			

General hygiene considerations	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. Contaminated work clothing should not be allowed out of the workplace.
Physical state	Liquid.
Form	Paste.
Colour	Yellow.
Odour	Not available.
Melting point/freezing point	956.15 °C (1753.07 °F) estimated
Boiling point or initial boiling point and boiling range	1543 °C (2809.4 °F) estimated
Flammability	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Flash point	>100.0 °C (>212.0 °F) estimated
Auto-ignition temperature	395 °C (743 °F) estimated
Decomposition temperature	Not available.
рН	Not available.
Kinematic viscosity	Not available.
Solubility Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	Not available.
Density and/or relative density	Not available.
Vapour density	Not available.
Particle characteristics	Not available.
Other information Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidising properties	Not oxidising.
VOC	0.25 % estimated
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Fluorine. Acids. Strong oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known.
Information on likely routes of e	xposure
Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Not applicable under normal conditions of use. May result in obstruction or temporary irritation of the digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rat	sh.
Information on toxicological ef	fects	
Acute toxicity	Not known.	
Product	Species	Test Results
DensDefy® Liquid Flashing		
<u>Acute</u> Dermal ATEmix		117700 mg/kg bw
<b>Inhalation</b> <i>Vapour</i> ATEmix		1177 mg/l
Oral		ITTT Ing/I
ATEmix		5332 mg/kg bw
Components	Species	Test Results
BIS (2-ETHYLHEXYL) ADIPATE	-	
<u>Acute</u>		
Dermal		
LD50	Rabbit	8410 mg/kg
<b>Oral</b> LD50	Rat	5600 mg/kg 5.6 g/kg
Calcium carbonate (CAS 471-34-	1)	0.0
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
LIMESTONE (CALCIUM CARBO Acute	NATE) (CAS 1317-65-3)	
Oral		
LD50	Rat	6450 mg/kg
Methyl Alcohol (CAS 67-56-1)		
<u>Acute</u>		
Dermal LD50	Rabbit	15800 mg/kg
Inhalation LC50	Rat	87.5 mg/l, 6 Hours
Stearic acid (CAS 57-11-4)		0.7
Acute		
Oral		
LD50	Rat	4.6 g/kg
Titanium dioxide (CAS 13463-67-	7)	
<u>Acute</u> Dormal		
<b>Dermal</b> LD50	Hamster	>= 10000 mg/kg
Oral		
LD50	Rat	> 10000 mg/kg

Components	Species		т	est Results
TRIMETHOXYVINYLSILANE (CA	S 2768-02-7)			
Acute	,			
Inhalation				
LC50	Rat		1	6.8 mg/l, 4 h
Skin corrosion/irritation	Prolonged skin	contact may cau	use temporary irritation.	
Serious eye damage/eye irritation	Direct contact v	with eyes may ca	ause temporary irritation.	
Respiratory or skin sensitisation	n			
Canada - Alberta OELs: Irrit				
Calcium carbonate (CAS LIMESTONE (CALCIUM Titanium dioxide (CAS 13	CARBONATE) (C	CAS 1317-65-3)	Irritant Irritant Irritant	
Respiratory sensitisation	Not a respirato	ry sensitiser.		
Skin sensitisation	May cause an a	allergic skin read	tion.	
Germ cell mutagenicity	No data availat	ole to indicate pr	oduct or any components	s present at greater than 0.1% are
	mutagenic or g			
Carcinogenicity	titanium dioxide	e may cause can		sure. Prolonged exposure to respirable physical form of this product (cured and ndition of use.
ACGIH Carcinogens				
Titanium dioxide (CAS 13	·		A3 Confirmed animal ca humans.	rcinogen with unknown relevance to
Canada - Manitoba OELs: c				
Titanium dioxide (CAS 13	·		Confirmed animal carcin humans.	logen with unknown relevance to
IARC Monographs. Overall				
BIS (2-ETHYLHEXYL) AI Titanium dioxide (CAS 13		3-23-1)	2B Possibly carcinogeni	carcinogenicity to humans. c to humans.
Reproductive toxicity	This product is	not expected to	cause reproductive or de	evelopmental effects.
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not an aspiration	on hazard.		
Chronic effects	Prolonged expo	osure may cause	e chronic effects.	
Ecotoxicity	Harmful to aqu	atic life with long	lasting effects.	
Product		Species		Test Results
DensDefy® Liquid Flashing Aquatic				
Crustacea	EC50	Daphnia		238095.2813 mg/l, 48 Hours estimated
Fish	LC50	Fish		333.3333 % v/v, 96 hours
Acute				·····
Crustacea	EC50	Daphnia		19898.5566 mg/l, 48 hours estimated
Fish	LC50	Fish		224.423 mg/l, 96 hours estimated
Components		Species		Test Results
BIS (2-ETHYLHEXYL) ADIPA	TE (CAS 103-23-	-		
	•			
Aquatic				
<b>Aquatic</b> Algae	IC50	Algae		500.0001 mg/l, 72 Hours

Material name: DensDefy® Liquid Flashing 6328 Version #: 01 Issue date: 02-04-2025

Components		Species	Test Results
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	0.48 - 0.85 mg/l, 96 hours
Methyl Alcohol (CAS 67-56-1	)		
Aquatic			
Acute	EC50	Water flee (Dephnie megne)	> 10000 mg/L 48 hours
Crustacea		Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Titanium dioxide (CAS 13463	8-67-7)		
Aquatic			
Acute		···· · · · · · · · · · · · · · · · · ·	
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
Persistence and degradability	No data is ava	ailable on the degradability of any ingredie	nts in the mixture.
Bioaccumulative potential			
Partition coefficient n-octar	nol / water (log	-	
Methyl Alcohol Stearic acid		-0.77 8.23	
Mobility in soil	No data availa		
Other adverse effects		erse environmental effects (e.g. ozone dep	letion photochemical ozone creation
		ocrine disruption, global warming potentia	
Disposal instructions	allow this mat ditches with c	claim or dispose in sealed containers at li erial to drain into sewers/water supplies. I hemical or used container. Dispose of con /national/international regulations.	Do not contaminate ponds, waterways or
Local disposal regulations	Dispose in ac	cordance with all applicable regulations.	
Hazardous waste code	The waste co waste disposa	de should be assigned in discussion betwo al company.	een the user, the producer and the
Waste from residues / unused products		accordance with local regulations. Empty ues. This material and its container must b	
Contaminated packaging		d containers may retain product residue, fo npty containers should be taken to an app	
TDG			
Not regulated as dangerous g	goods.		
ΙΑΤΑ			
Not regulated as dangerous g	goods.		
IMDG			
Not regulated as dangerous g Transport in bulk according to	yoods. Not establishe	ad	
Annex II of MARPOL 73/78 and the IBC Code	NUL ESTADIISTIC	54.	
Canadian regulations		nas been classified in accordance with the e information required by the HPR.	hazard criteria of the HPR and the SDS
Controlled Drugs and Subs	tances Act		
Not regulated.			
Export Control List (CEPA 1	1999, Schedule	3)	
Not listed. Greenhouse Gases			
Not listed.			

Precursor Control Regulation	ns	
Not regulated. International regulations		
Stockholm Convention		
Not applicable. Rotterdam Convention		
Not applicable. Kyoto Protocol		
Not applicable. Montreal Protocol		
Not applicable. Basel Convention		
Not applicable.		
International Inventories		
Country(s) or region United States & Puerto Rico	Inventory name Toxic Substances Control Act (TSCA) Inventory	On inventory (yes/no)* Yes
*A "Yes" indicates that all compo	nents of this product comply with the inventory requirements administered by the ge e components of the product are not listed or exempt from listing on the inventory a	overning country(s)
Issue date	02-04-2025	
Version No.	01	
Disclaimer	This SDS is intended to quickly provide useful information to the user(s) of product. It is not intended to serve as a comprehensive discussion of all p hazards, and it assumes a reasonable use of the product. The information SDS is believed to be accurate as of the date of preparation of this SDS as from sources believed to be reliable. It is offered for your consideration, in verification. The user or handler (or their employer) should consider the s which this material will be used, handled, or stored and determine what sp precautions are required. Employers should ensure that their employees, a and customers who will use the product receive adequate warnings and se procedures, including a current SDS. Product users or handlers (or their employ or safety or health professionals before handling or working with this product immediately if you believe this SDS or other safety and health information inaccurate or incomplete.	oossible risks or n contained in this nd has been compiled westigation and specific conditions in becific safety or other agents, contractors, afe handling employer) who are oyer, product supplier, uct. Please notify us
Revision information	This document has undergone significant changes and should be reviewed	d in its entirety.