SAFETY DATA SHEET

1. Identification

Product identifier	DEVCON® Aluminum L	iquid (F-2) Resin	
Other means of identification			
SKU#	0103		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	r/Distributor information		
Manufacturer			
Company name Address	ITW Performance Polyme 30 Endicott Street Danvers, MA 01923 United States	ers	
Telephone	Customer Service	978-777-1100	
Website	www.itwperformancepoly	mers.com	
E-mail	Not available.		
Contact person	EHS Department Chemtrec	800 404 0200	
Emergency phone number	International	800-424-9300 703-527-3887	
2 Hazard(a) identification			
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation		Category 2
	Serious eye damage/eye	irritation	Category 2
	Sensitization, skin		Category 1
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Warning		
Hazard statement	Causes skin irritation. Ma	ay cause an allergic s	skin reaction. Causes serious eye irritation.
Precautionary statement		2	-
Prevention			oray. Wash thoroughly after handling. Contaminated vorkplace. Wear eye protection/face protection.
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.		
Storage	Not available.		
Disposal	Dispose of contents/conta	ainer in accordance	with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminum Flake		7429-90-5	30 - 60
Epoxy Resin: reaction product or bisphenol A and epichlorohydrir (refer to epichlorohydrin)		25068-38-6	30 - 60
Calcium Carbonate		1317-65-3	10 - 30
Alkyl Glycidyl Ether		68609-97-2	1 - 5
Other components below report	able levels		1 - <3
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	ns develop or persist.	
Skin contact	Remove contaminated clothing immediately a eczema or other skin disorders: Seek medica contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Ge	t medical attention if irritation of	e contact lenses, if levelops and persists.
Ingestion	Rinse mouth. Get medical attention if sympto		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include vision. Skin irritation. May cause redness and Rash.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre Symptoms may be delayed.	at symptomatically. Keep victi	m under observation.
General information	Ensure that medical personnel are aware of t protect themselves. Wash contaminated cloth		ke precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	oon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	is will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers	5.	
Specific methods	Use standard firefighting procedures and con	sider the hazards of other invo	lved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release mea	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per appropriate protective equipment and clothing or spilled material unless wearing appropriate Local authorities should be advised if significat protection, see section 8 of the SDS.	g during clean-up. Do not touc e protective clothing. Ensure ac ant spillages cannot be contair	h damaged containers dequate ventilation. ned. For personal
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this i with water.	is without risk. Following produ	ct recovery, flush area
	Small Spills: Clean surface thoroughly to rem	ove residual contamination.	
Environmental precautions	Never return spills to original containers for re Avoid discharge into drains, water courses or		section 13 of the SDS
7. Handling and storage			
Precautions for safe handling	Avoid breathing dust/fume/gas/mist/vapors/s Avoid prolonged exposure. Provide adequate equipment. Observe good industrial hygiene	e ventilation. Wear appropriate	
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away solo.	•	ee Section 10 of the

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	ssible Exposure Limits (PEL) for Air Type	Value	Form
Aluminum Flake (CAS 7429-90-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Calcium Carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
	ssible Exposure Limits (PEL) for Min	-	-
Components	Туре	Value	Form
Aluminum Flake (CAS 7429-90-5)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limi Components	t Values (TLV) Type	Value	Form
Aluminum Flake (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards Recommended	Exposure Limits (REL)	
Components	Туре	Value	Form
Aluminum Flake (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume or pyrophoric powder.
		5 mg/m3	Respirable.
		10 mg/m3	Total
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
,		10 mg/m3	Total
ogical limit values	No biological exposure limits noted t	or the ingredient(s).	
ropriate engineering trols	Good general ventilation should be applicable, use process enclosures, maintain airborne levels below recor established, maintain airborne levels shower.	local exhaust ventilation, or oth nmended exposure limits. If exp	er engineering controls to oosure limits have not bee
vidual protection measures	s, such as personal protective equipr		
Eye/face protection	Wear safety glasses with side shield	s (or goggles). Face shield is re	commended.
Skin protection	Waar appropriate chemical resistant		
Hand protection	Wear appropriate chemical resistant	5	
Other	Wear appropriate chemical resistant		-
		and a settle for the standard standard structure and	1
Respiratory protection Thermal hazards	In case of insufficient ventilation, we Wear appropriate thermal protective		nt.

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.

9. Physical and chemical properties		
Appearance	Paste.	
Physical state	Solid.	
Form	Paste.	
Color	Grey.	
Odor	Slight.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	608 °F (320 °C) estimated	
Flash point	>399.9 °F (>204.4 °C)	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or exp	losive limits	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Density	1.93 g/cm3 estimated	
Explosive properties	Not explosive.	
Oxidizing properties	Not oxidizing.	
Specific gravity	1.93 estimated	
10 Stability and reactivity	1	

10. Stability and reactivity

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	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.

Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.		
Information on toxicological eff	ects		
Acute toxicity	Not known.		
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity to humans.		
Not listed.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.1001-1053)		
Not listed. US. National Toxicology Pro Not listed.	ogram (NTP) Report on Carcinogens		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological informatio	n		
Ecotoxicity	The product 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.		
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential			
Mobility in soil	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 component.		
13. Disposal consideration	ns		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.		
14. Transport information			

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory informat	ion			
US federal regulations	This product is a "H Standard, 29 CFR		efined by the OSHA Hazard Communica	ation
US EPCRA (SARA Tit	le III) Section 313 - To	xic Chemical: De minimi	s concentration	
Aluminum Flake (% 1.0		
	-	xic Chemical: Listed sub	stance	
Aluminum Flake (,	Listed.		
Toxic Substances Contro	I Act (TSCA)			
TSCA Section 12(b) E	Export Notification (40	CFR 707, Subpt. D)		
Not regulated.				
CERCLA Hazardous Subs	stance List (40 CFR 30	2.4)		
Not listed.				
SARA 304 Emergency rel	ease notification			
Not regulated. OSHA Specifically Regula	atod Substancos (29 C	FR 1910 1001-1053)		
Not listed.		11(1510.1001-1055)		
Superfund Amendments and	Regulthorization Act o	f 1986 (SARA)		
SARA 302 Extremely haz				
Not listed.	andous substance			
SARA 311/312 Hazardous	Yes			
chemical	100			
Classified hazard	Skin corrosion or ir	ritation		
categories	Serious eye damag Respiratory or skin			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Aluminum Flake		7429-90-5	30 - 60	
Other federal regulations				
Clean Air Act (CAA) Secti	on 112 Hazardous Air	Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Secti	ion 112(r) Accidental F	Release Prevention (40 C	FR 68.130)	
	()			
Not regulated.		(
	Not regulated.			
Not regulated. Safe Drinking Water Act				
Not regulated. Safe Drinking Water Act (SDWA) US state regulations	Not regulated.		gulations (Cal. Code Regs, tit. 22, 695	02.3, subd.
Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California. Candidate	Not regulated. Chemicals List. Safer		gulations (Cal. Code Regs, tit. 22, 695	02.3, subd.
Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California. Candidate (a))	Not regulated. Chemicals List. Safer 7429-90-5)		gulations (Cal. Code Regs, tit. 22, 695	02.3, subd.
Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California. Candidate (a)) Aluminum Flake (CAS California Proposition 65 WARNING:	Not regulated. Chemicals List. Safer 7429-90-5) This product can expos	Consumer Products Re	nown to the State of California to cause	
Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California. Candidate (a)) Aluminum Flake (CAS California Proposition 65 WARNING:	Not regulated. Chemicals List. Safer 7429-90-5) This product can expos For more information go	Consumer Products Re e you to Quartz, which is k o to www.P65Warnings.ca	nown to the State of California to cause .gov.	
Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California. Candidate (a)) Aluminum Flake (CAS California Proposition 65 WARNING: California Proposition	Not regulated. Chemicals List. Safer 7429-90-5) This product can expos For more information go	Consumer Products Reg e you to Quartz, which is k o to www.P65Warnings.ca	nown to the State of California to cause .gov. e	
Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California. Candidate (a)) Aluminum Flake (CAS California Proposition 65 WARNING: California Proposition Quartz (CAS 1480	Not regulated. Chemicals List. Safer 7429-90-5) This product can expos For more information go	Consumer Products Re e you to Quartz, which is k o to www.P65Warnings.ca	nown to the State of California to cause .gov. e	
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Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California. Candidate (a)) Aluminum Flake (CAS California Proposition 65 WARNING: California Proposition Quartz (CAS 1480	Not regulated. Chemicals List. Safer 7429-90-5) This product can expos For more information go n 65 - CRT: Listed date 08-60-7) Inventory name	Consumer Products Reg e you to Quartz, which is H o to www.P65Warnings.ca e/Carcinogenic substanc Listed: Octob	nown to the State of California to cause .gov. e er 1, 1988 On inven	
Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California. Candidate (a)) Aluminum Flake (CAS California Proposition 65 WARNING: California Proposition Quartz (CAS 1480 International Inventories	Not regulated. Chemicals List. Safer 7429-90-5) This product can expos For more information go n 65 - CRT: Listed date 08-60-7) Inventory name	Consumer Products Reg e you to Quartz, which is k o to www.P65Warnings.ca c/Carcinogenic substanc Listed: Octob	nown to the State of California to cause .gov. e er 1, 1988 On inven	e cancer.

Country(s) or region	Inventory name d	On inventory (yes/no)*	
Canada	Non-Domestic Substances List (NDSL)	Yes	
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No	
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No	
Korea	Existing Chemicals List (ECL)	Yes	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes	
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-29-2019
Revision date	07-26-2023
Version #	07
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.