SAFETY DATA SHEET

Product identifierEVCONS Wear Guard "* High Team 450 ×	1. Identification		
SKU# 0138 Recommended use Not available. Recommended restrictions Nore known. Manufacturer/Importer/Supplier/Distributor information	Product identifier	DEVCON® Wear Guard™ High Temp 4	450 Resin
Racommonded restrictions None known. Manufacturer/Importer/Supplier/Distributor information Company name ITW Performance Polymers Address 35 Brownridge Rd Unit 1 Hatton Hills, ON L7G 0C6 Contact person Customer Service Telephone number 978-777-1100 Fax Fax E-mail Bo0-424-9300 mumber 800-424-9300 number Pois-777-1100 Fax Fax E-mail Storage Brogency telephone 800-424-9300 number Storage Storage (dentification) Category 2 Serious eye damage/eye irritation Category 2 Serious eye damage/eye irritation Category 1 Environmental hazards Skin corrosion/irritation Signal word Warning Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Precentionary statement Precentionary statement Precentionary statement Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Precention Skin corrosion/irritat		0138	
Manufacturer/importer/Supplier/Distributor information Company name ITW Performance Polymers Address 35 Brownridge Rd Unit 1 Halton Hills, ON L7G 0C6 Contact person Customer Service 978-777-1100 Fax E-mail Emergency telephone 978-777-1100 Fax E-mail Emergency telephone 800-424-9300 number Physical hazards Not available. 2. Hazard identification Physical hazards Not classified. Health hazards Skin corrosion/iritation Category 2 Service Service Service Category 1 Category 1 Environmental hazards Not classified. Label elements Signal word Varning Hazard statement Prevention Avid breathing mist/vapours. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection. Wear protective gloves. 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. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection. Wear protective gloves. 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. Contaminated advice/attention. Take off contaminated clothing and wash it before reuse. Storage Dispose of contents/container in accordance with local/regional/national/international regulations. Supplemental information None.	Recommended use	Not available.	
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Supplemental information None.	Storage	Not available.	
	Disposal	Dispose of contents/container in accorda	ance with local/regional/national/international regulations.
Other hazards None known.	Supplemental information	None.	
	Other hazards	None known.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
CORUNDUM		1302-74-5	40 - < 50
Epoxy Resin:reaction Product O Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin)	f	25068-38-6	30 - < 40
ALUMINATE SILICATE		1327-36-2	10 - < 20
Poly(p-phenylenediamine-co-terep thalolyl Chloride)	bh	26125-61-1	1 - < 3
Titanium dioxide	Titanium dioxide	13463-67-7	< 1
Carbon Black		1333-86-4	< 0.2
Other components below reportab	le levels		1 - 5
l concentrations are in percent by v	eight unless ingredient is a gas. Gas concer	ntrations are in percent by vol	ume.

4. First-aid measures 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. Wash contaminated clothing before reuse. Eve contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Rinse mouth. Get medical attention if symptoms occur. Ingestion Most important 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. symptoms/effects, acute and Rash. delayed Provide general supportive measures and treat symptomatically. Keep victim under observation. Indication of immediate Symptoms may be delayed. medical attention and special treatment needed **General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Do not use water jet as an extinguisher, as this will spread the fire.
During fire, gases hazardous to health may be formed.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Move containers from fire area if you can do so without risk.
Use standard firefighting procedures and consider the hazards of other involved materials.
No unusual fire or explosion hazards noted.

6. Accidental release measures

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 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.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. 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).

particles

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH	Threshold	Limit	Values	(TLV)
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Components	Туре	Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	2.5 mg/m3	Respirable finescale particles
		0.2 mg/m3	Respirable nanoscale

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended

Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	TWA	3.5 mg/m3	
CORUNDUM (CAS 1302-74-5)	TWA	10 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable
CORUNDUM (CAS 1302-74-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

Components	Туре	Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
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 Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)

Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	TWA	3.5 mg/m3	

Components	Туре	Value	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Ontario OELs. (Co Components	ontrol of Exposure to Biological or Che Type	mical Agents), as amended Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
CORUNDUM (CAS 1302-74-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Quebec OELs. (M Components	inistry of Labor - Regulation respecting Type	g occupational health and s Value	afety), as amended Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable dust.
CORUNDUM (CAS 1302-74-5)	TWA	10 mg/m3	Total dust.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.
Canada. Saskatchewan OB Components	ELs (Occupational Health and Safety Re Type	egulations, 1996, Table 21), Value	as amended Form
ALUMINATE SILICATE (CAS 1327-36-2)	15 minute	20 mg/m3	Dust.
Carbon Black (CAS 1333-86-4)	15 minute	7 mg/m3	
CORUNDUM (CAS 1302-74-5)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
Titanium dioxide (CAS 13463-67-7)	15 minute	20 mg/m3	
logical limit values	No biological exposure limits noted for	the ingredient(s).	
propriate engineering trols	Good general ventilation should be us applicable, use process enclosures, lo maintain airborne levels below recomr established, maintain airborne levels t shower.	ocal exhaust ventilation, or oth mended exposure limits. If exp	er engineering controls to posure limits have not been
vidual protection measures Eye/face protection	s, such as personal protective equipme Wear safety glasses with side shields		ecommended.
Skin protection Hand protection	Wear appropriate chemical resistant g	loves.	
Other	Wear appropriate chemical resistant c	lothing. Use of an impervious	apron is recommended.
Respiratory protection	In case of insufficient ventilation, wear		-
Thermal hazards	Wear appropriate thermal protective c		
neral hygiene siderations	Always observe good personal hygien and before eating, drinking, and/or sm equipment to remove contaminants. C workplace.	oking. Routinely wash work o	clothing and protective

 Physical state
 Liquid.

 Material name: DEVCON® Wear Guard™ High Temp 450 Resin
 0420

 Varging # 400
 Devising data 04 August 2002

Appearance

Viscous. Liquid.

Form	Viscous. Liquid.
Colour	Not available.
Odour	Slight.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	320 °C (608 °F) estimated
Flash point	129.4 °C (265.0 °F) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour 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	2.10 g/cm3 Mixed components
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidising properties	Not oxidising.
Specific gravity	2.1 Mixed components
VOC	100 % Solids
10 Stability and reactivity	

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 oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure			
Inhalation	No adverse effects due to inhalation are expected.		
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 effe	ects		
Acute toxicity	Not known.		
Components	Species	Test Results	
Carbon Black (CAS 1333-86-4)			
Acute			
Oral			
LD50	Rat	> 8000 mg/kg	
Titanium dioxide (CAS 13463-67-7	7)		
Acute			
Dermal			
LD50	Hamster	>= 10000 mg/kg	
Oral			
LD50	Rat	> 10000 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation		
Respiratory or skin sensitisation	n		
Canada - Alberta OELs: Irrit			
Carbon Black (CAS 1333	-86-4)	Irritant	
CORUNDUM (CAS 1302		Irritant	
Titanium dioxide (CAS 13		Irritant	
Respiratory sensitisation	Not a respiratory sensitiser.		
Skin sensitisation	May cause an allergic skin re		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity			
ACGIH Carcinogens			
ALUMINATE SILICATE (CAS 1327-36-2) Carbon Black (CAS 1333-86-4)		A4 Not classifiable as a human carcinogen. A3 Confirmed animal carcinogen with unknown relevance to humans.	
Titanium dioxide (CAS 13463-67-7)		A3 Confirmed animal carcinogen with unknown relevance to humans.	
Canada - Manitoba OELs: ca	arcinogenicity		
ALUMINATE SILICATE (CAS 1327-36-2) Carbon Black (CAS 1333-86-4) Titanium dioxide (CAS 13463-67-7)		Not classifiable as a human carcinogen. Confirmed animal carcinogen with unknown relevance to humans. Confirmed animal carcinogen with unknown relevance to humans.	
Canada - Quebec OELs: Ca	rcinogen category		
Carbon Black (CAS 1333		Detected carcinogenic effect in animals.	
	Evaluation of Carcinogenicity		
Carbon Black (CAS 1333 Poly(p-phenylenediamine (CAS 26125-61-1)	e-co-terephthalolyl Chloride)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.	
Titanium dioxide (CAS 13		2B Possibly carcinogenic to humans.	
	ogram (NTP) Report on Carci		
Carbon Black (CAS 1333	•	Known To Be Human Carcinogen.	
Reproductive toxicity		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.		
12. Ecological information	n		
Ecotoxicity	The product is not classified	as environmentally hazardous. However, this does not exclude the	

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 Bioaccumulative potential	No data is available on the degradability of any ingredients in the mixture.		
Mobility in soil	No data available.		
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
13. Disposal considerations			
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

TDG

Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

Canadian regulations	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.		
Controlled Drugs and Sul	bstances Act		
Not regulated. Export Control List (CEPA	A 1999, Schedule 3)		
Not listed.			
Greenhouse Gases			
Not listed.			
Precursor Control Regula	itions		
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	Inventory name	On inventory (yes/no)*	
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No	
Canada	Domestic Substances List (DSL)	Yes	
Canada	Non-Domestic Substances List (NDSL)	No	

Country(s) or region	Inventory name On	inventory (yes/no)*		
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	No		
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 "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 29-May-2019 **Issue date** 01-August-2023 **Revision date** Version No. 10 ITW Performance Polymers cannot anticipate all conditions under which this information and its Disclaimer 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. Physical & Chemical Properties: Multiple Properties **Revision information**