SAFETY DATA SHEET

1. Identification

Product identifier DEVCON® Combowear FC (Fast Cure) Resin

Other means of identification

SKU# 0199

Recommended useNot available. **Recommended restrictions**None known.

Manufacturer/Importer/Supplier/Distributor information

Company name ITW Performance Polymers

Address 35 Brownridge Rd

Unit 1

Halton Hills, ON L7G 0C6

Contact personCustomer Service **Telephone number**978-777-1100

Fax E-mail

Emergency telephone

number

800-424-9300

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2
Sensitization, skin Category 1

Environmental hazards Not classified.

Label elements



Signal word Warning

Hazard statement Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious

eye irritation.

Precautionary statement

Prevention Avoid breathing mist/vapours. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Contaminated work clothing should not be allowed out of the workplace. Wear $\,$

eye protection/face protection. Wear protective gloves.

Response IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. Rinse mouth. 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/container in accordance with local/regional/national/international regulations.

Supplemental information None.

3. Composition/information on ingredients

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Chemical name	Common name and synonyms	CAS number	%
Aluminium oxide		1344-28-1	10 - 30
Aluminium oxide		1302-74-5	10 - 30
Bauxite		92797-42-7	10 - 30
Epoxy Resin:Reaction product of bisphenol A and epichlorohydrin (refer to epichlorohydrin)		25068-38-6	10 - 30
Silicon Carbide (sic)		409-21-2	10 - 30
ALUMINATE SILICATE		1327-36-2	1 - 5
Other components below reportable	levels		3 - 7

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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.

Eye 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.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

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.

Provide general supportive measures and treat symptomatically. Keep victim warm. 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. Show this safety data sheet to the doctor in attendance. Wash contaminated

clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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.

Move containers from fire area if you can do so without risk.

equipment/instructions Specific methods

Fire fighting

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards 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.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values (TLV)

Components Type Value Form

ALUMINATE SILICATE TWA 1 mg/m3 Respirable fraction.

(CAS 1327-36-2)

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

Components Type Value

Aluminium oxide (CAS TWA 10 mg/m3 1302-74-5)

Aluminium oxide (CAS TWA 10 mg/m3

1344-28-1)

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

ComponentsTypeValueFormALUMINATE SILICATE
(CAS 1327-36-2)TWA1 mg/m3Respirable.

Aluminium oxide (CAS TWA 3 mg/m3 Respirable fraction.

1302-74-5)

10 mg/m3 Total dust.

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

Components Type Value Form

ALUMINATE SILICATE TWA 1 mg/m3 Respirable fraction.

(CAS 1327-36-2)

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 Type Value Form

ALUMINATE SILICATE TWA 1 mg/m3 Respirable fraction.

(CAS 1327-36-2)

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended

Components Type Value Form

ALUMINATE SILICATE TWA 1 mg/m3 Respirable fraction.

(CAS 1327-36-2)

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended Components

Type

Value

Form

ALUMINATE SILICATE TWA 5 mg/m3 Respirable dust.

(CAS 1327-36-2)

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended

Form Components **Type** Value

1302-74-5)

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended Components **Form** Type

ALUMINATE SILICATE 15 minute 20 mg/m3 Dust.

(CAS 1327-36-2)

Aluminium oxide (CAS

Aluminium oxide (CAS 15 minute 20 mg/m3

TWA

1302-74-5)

Aluminium oxide (CAS 15 minute 20 mg/m3

1344-28-1)

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

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

shower.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. 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.

10 mg/m3

Total dust.

9. Physical and chemical properties

Physical state Liquid.

Form Viscous, Liquid. Colour Not available. Odour Slight.

Melting point/freezing point Not available.

Boiling point or initial boiling

point and boiling range

320 °C (608 °F) estimated

Flammability Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper Not available.

(%)

Flash point

129.4 °C (265.0 °F) estimated

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available. Kinematic viscosity Not available.

Solubility

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water) (log value)

Vapour pressure Not available.

Density and/or relative density

Density 1.40 g/cm3 estimated

Vapour density Not available.

Particle characteristics Not available.

Other information

Explosive properties Not explosive.

Flammability class Combustible IIIB estimated

Oxidising properties Not oxidising.

Specific gravity 1.4 estimated

VOC 0 g/l

10. Stability and reactivity

ReactivityThe 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 avoidContact 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 Harmful if swallowed.

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 effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

Aluminium oxide (CAS 1344-28-1)

Acute Oral

LD50

Rat > 5000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicityNo 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.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Material name: DEVCON® Combowear FC (Fast Cure) Resin
0199 Version #: 03 Revision date: 07-January-2025 Issue date: 29-May-2019

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

EcotoxicityThe 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 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 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 regulationsDispose 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.

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 Annex II of MARPOL 73/78 and

Not established.

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 Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Material name: DEVCON® Combowear FC (Fast Cure) Resin
0199 Version #: 03 Revision date: 07-January-2025 Issue date: 29-May-2019

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name O	n inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vos" indicatos that all compone	onto of this product comply with the inventory requirements administered by the governing of	ountry(o)

^{*}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

Issue date29-May-2019Revision date07-January-2025

Version No. 03

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.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

Material name: DEVCON® Combowear FC (Fast Cure) Resin
0199 Version #: 03 Revision date: 07-January-2025 Issue date: 29-May-2019

SAFETY DATA SHEET

1. Identification

Product identifier DEVCON® Combowear FC (Fast Cure) Hardener

Other means of identification

SKU# 5385

Recommended use Not available. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Company name ITW Performance Polymers

Address 35 Brownridge Rd

Unit 1

Halton Hills, ON L7G 0C6

Contact personCustomer ServiceTelephone number978-777-1100

Fax E-mail

Emergency telephone

number

800-424-9300

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation

Serious eye damage/eye irritation

Sensitization, skin

Category 1

Category 1

Reproductive toxicity

Category 2

Environmental hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin

reaction. Causes serious eye damage. Suspected of damaging fertility or the unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye

protection/face protection.

Response IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Bauxite		92797-42-7	10 - 30
BISPHENOL A		80-05-7	10 - 30
CORUNDUM		1302-74-5	10 - 30
N-Aminoethylpiperazine		140-31-8	10 - 30
Silicon Carbide (sic)		409-21-2	10 - 30
NONYL PHENOL		84852-15-3	5 - 10
ALUMINATE SILICATE		1327-36-2	1 - 5
Benzyl alcohol		100-51-6	1 - <3
Titanium dioxide	Titanium dioxide	13463-67-7	0.5 - 1.5
Other components below rep	portable levels		10 - 30

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

blindness could result.

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician Skin contact

or poison control centre immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

immediately. While flushing, remove clothes which do not adhere to affected area, Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed

observation. Symptoms may be delayed. **General information** IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice

(show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Ingestion

Foam. Powder. Carbon dioxide (CO2).

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.

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. 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.

Material name: DEVCON® Combowear FC (Fast Cure) Hardener 5385 Version #: 02 Revision date: 09-September-2022 Issue date: 29-May-2019

Methods and materials for containment and cleaning up

Use water spray to reduce vapours or divert vapour cloud drift.

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. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid breathing dust/fume/gas/mist/vapours/spray. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH	Threshold	Limit Values	
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Components	Type	Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable fraction.
Silicon Carbide (sic) (CAS 409-21-2)	TWA	0.1 fibers/cm3	Fiber.
		3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

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

Components	Туре	Value	Form
CORUNDUM (CAS 1302-74-5)	TWA	10 mg/m3	
Silicon Carbide (sic) (CAS 409-21-2)	TWA	0.1 fibers/cm3	Fiber.
		3 mg/m3	Respirable particles.
		10 mg/m3	Total particulate.
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.
CORUNDUM (CAS 1302-74-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Silicon Carbide (sic) (CAS 409-21-2)	TWA	0.1 fibers/cm3	Fiber.
		3 mg/m3	Respirable.
		10 mg/m3	Inhalable
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.

Material name: DEVCON® Combowear FC (Fast Cure) Hardener

SDS CANADA

Components	Туре	Value	Form
		10 mg/m3	Total dust.
Canada. Manitoba OELs (R Components	teg. 217/2006, The Workplace Safety Ar Type	nd Health Act) Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable fraction.
Silicon Carbide (sic) (CAS 409-21-2)	TWA	0.1 fibers/cm3	Fiber.
		3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
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) Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable fraction.
CORUNDUM (CAS 1302-74-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Silicon Carbide (sic) (CAS 409-21-2)	TWA	0.1 fibers/cc	Respirable.
		3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Titanium dioxide (CAS	TWA	10 mg/m3	
13463-67-7)			
Canada. Quebec OELs. (Mi	inistry of Labor - Regulation respecting Type	occupational health and saf Value	ety) Form
Canada. Quebec OELs. (Mi Components CORUNDUM (CAS		= '	- -
Canada. Quebec OELs. (Mi Components CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS	Туре	Value	Form
Canada. Quebec OELs. (Mi Components CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS	Type TWA	Value 10 mg/m3	Form Total dust.
Canada. Quebec OELs. (Mi Components CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OE	Type TWA TWA	Value 10 mg/m3 10 mg/m3 10 mg/m3	Form Total dust. Total dust.
Canada. Quebec OELs. (Mi Components CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OE Components	Type TWA TWA TWA ELs (Occupational Health and Safety Re	Value 10 mg/m3 10 mg/m3 10 mg/m3 egulations, 1996, Table 21)	Form Total dust. Total dust. Total dust.
Canada. Quebec OELs. (Mi Components CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OE Components	Type TWA TWA TWA TWA ELs (Occupational Health and Safety Recognity Type	Value 10 mg/m3 10 mg/m3 10 mg/m3 egulations, 1996, Table 21) Value	Form Total dust. Total dust. Total dust. Form
Canada. Quebec OELs. (MicComponents CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OE Components ALUMINATE SILICATE (CAS 1327-36-2) CORUNDUM (CAS	Type TWA TWA TWA TWA ELs (Occupational Health and Safety Rettype 15 minute	Value 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 20 mg/m3	Form Total dust. Total dust. Total dust. Form Dust.
CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7)	Type TWA TWA TWA TWA ELs (Occupational Health and Safety Retrope 15 minute 8 hour	Value 10 mg/m3	Form Total dust. Total dust. Total dust. Form Dust.
Canada. Quebec OELs. (MicComponents CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OEComponents ALUMINATE SILICATE (CAS 1327-36-2) CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS	Type TWA TWA TWA TWA ELs (Occupational Health and Safety Retrope 15 minute 8 hour 15 minute	Value 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 20 mg/m3	Form Total dust. Total dust. Total dust. Form Dust.
Canada. Quebec OELs. (MicComponents CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OEComponents ALUMINATE SILICATE (CAS 1327-36-2) CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS	Type TWA TWA TWA TWA SLS (Occupational Health and Safety Retrype 15 minute 8 hour 15 minute 8 hour 15 minute	Value 10 mg/m3	Form Total dust. Total dust. Total dust. Form Dust. Dust.
Canada. Quebec OELs. (MicComponents CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OEComponents ALUMINATE SILICATE (CAS 1327-36-2) CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS	Type TWA TWA TWA TWA SLS (Occupational Health and Safety Retrype 15 minute 8 hour 15 minute 8 hour 15 minute	Value 10 mg/m3 6 mg/m3	Form Total dust. Total dust. Total dust. Form Dust. Dust. Respirable fraction.
Canada. Quebec OELs. (MicComponents CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OEComponents ALUMINATE SILICATE (CAS 1327-36-2) CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS	Type TWA TWA TWA TWA ELs (Occupational Health and Safety Retrope 15 minute 8 hour 15 minute 8 hour 15 minute	Value 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3 20 mg/m3	Form Total dust. Total dust. Total dust. Form Dust. Dust. Respirable fraction. Inhalable fraction.
Canada. Quebec OELs. (MicComponents CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OEComponents ALUMINATE SILICATE (CAS 1327-36-2) CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS	Type TWA TWA TWA TWA ELs (Occupational Health and Safety Retrope 15 minute 8 hour 15 minute 8 hour 15 minute	Value 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3 6 mg/m3 20 mg/m3 0.1 fibers/cc	Form Total dust. Total dust. Total dust. Form Dust. Dust. Respirable fraction. Inhalable fraction. Respirable fibers.
Canada. Quebec OELs. (MicComponents CORUNDUM (CAS 1302-74-5) Silicon Carbide (sic) (CAS 409-21-2) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OEComponents ALUMINATE SILICATE (CAS 1327-36-2) CORUNDUM (CAS	Type TWA TWA TWA TWA ELs (Occupational Health and Safety Retrope 15 minute 8 hour 15 minute 8 hour 15 minute	Value 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3 20 mg/m3 10 mg/m3 30 mg/m3 30 mg/m3 30 mg/m3	Form Total dust. Total dust. Total dust. Form Dust. Dust. Respirable fraction. Inhalable fraction. Respirable fibers. Respirable fraction.

Exposure guidelines

Appropriate engineering

controls

Occupational Exposure Limits are not relevant to the current physical form of the product.

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency

shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Observe any medical surveillance requirements. Keep away from food and drink. 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.

Not available. **Physical state** Paste. **Form** White. Colour

Odour Ammoniacal, Mild. Not available. **Odour threshold** Not available.

-10 °C (14 °F) estimated Melting point/freezing point 222.22 °C (432 °F) estimated Initial boiling point and boiling

range

100.0 °C (212.0 °F) estimated Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper Not available.

(%)

Vapour pressure 1.57 hPa estimated

Not available. Vapour density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature Viscosity** Not available.

Other information

Density 2.11 g/cm3 estimated

Explosive properties Not explosive.

5385 Version #: 02 Revision date: 09-September-2022 Issue date: 29-May-2019

Flammability class Combustible IIIB estimated

Oxidising properties Not oxidising.

Specific gravity 2.11 estimated

10. Stability and reactivity

ReactivityThe 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 Hazardous polymerisation does not occur.

Possibility of hazardous Hazardous polymerisation does not occur reactions

flash point. Contact with incompatible materials.

Incompatible materials Alkali metals. Peroxides. Phenols.

Hazardous decomposition No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

Benzyl alcohol (CAS 100-51-6)

Acute Dermal

LD50 Rabbit 2000 mg/kg

Inhalation

LC50 Rat 1000 mg/l, 8 Hours

NONYL PHENOL (CAS 84852-15-3)

Acute Dermal

LD50 Rabbit 2140 mg/kg

Oral

LD50 Rat 1600 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

CORUNDUM (CAS 1302-74-5) Irritant
Silicon Carbide (sic) (CAS 409-21-2) Irritant
Titanium dioxide (CAS 13463-67-7) Irritant

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Material name: DEVCON® Combowear FC (Fast Cure) Hardener
5385 Version #: 02 Revision date: 09-September-2022 Issue date: 29-May-2019

ACGIH Carcinogens

ALUMINATE SILICATE (CAS 1327-36-2) A4 Not classifiable as a human carcinogen.

Silicon Carbide (sic) (CAS 409-21-2) A2 Suspected human carcinogen.

Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

Canada - Alberta OELs: Carcinogen category

Silicon Carbide (sic) (CAS 409-21-2) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

ALUMINATE SILICATE (CAS 1327-36-2) Not classifiable as a human carcinogen.

Silicon Carbide (sic) (CAS 409-21-2) Suspected human carcinogen.

Titanium dioxide (CAS 13463-67-7) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silicon Carbide (sic) (CAS 409-21-2) 2A Probably carcinogenic to humans. Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Benzvl alcohol 1.1 **BISPHENOL A** 3.32 NONYL PHENOL 5.71

No data available. Mobility in soil

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 considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions**

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

UN number UN3267

UN proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-Aminoethylpiperazine, nonyl phenol),

Limited Quantity

Transport hazard class(es)

8 Class Subsidiary risk Ш Packing group

Environmental hazards Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN3267 **UN** number

UN proper shipping name Transport hazard class(es) Corrosive liquid, basic, organic, n.o.s. (N-Aminoethylpiperazine, nonyl phenol), Limited Quantity

8 Class Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 8L

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Allowed with restrictions. Cargo aircraft only

IMDG

UN number UN3267

UN proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-Aminoethylpiperazine, nonyl phenol),

Limited Quantity

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group

Environmental hazards

Marine pollutant No. **EmS** F-A. S-B

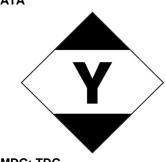
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

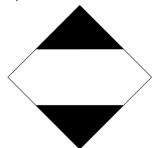
the IBC Code

Not applicable. Not established.





IMDG; TDG



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 Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

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 Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

^{*}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).

Toxic Substances Control Act (TSCA) Inventory

16. Other information

29-May-2019 Issue date

Revision date 09-September-2022

Version No. 02

United States & Puerto Rico

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.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

Material name: DEVCON® Combowear FC (Fast Cure) Hardener 5385 Version #: 02 Revision date: 09-September-2022 Issue date: 29-May-2019 Yes