SAFETY DATA SHEET

1. Identification

Product identifier DEVCON® DFense Blok™ Fast Cure (FC) Resin

Other means of identification

SKU# 0092

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 ServiceTelephone number978-777-1100

Fax E-mail

Emergency telephone

number

800-424-9300

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

Sensitization, skin Category 1

Environmental hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Precautionary statement

Prevention Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/face

protection. Wear protective gloves.

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/container in accordance with local/regional/national/international regulations.

Supplemental informationNone.Other hazardsNone known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Bauxite		92797-42-7	60 - < 70
Phenol Polymer With Formaldehyde, Glycidyl Ether		28064-14-4	10 - 30
Epoxy Resin: reaction product of Bisphenol A and epichlorohydrin (refer to epichlorohydrin)		25068-38-6	10 - < 20
Other components below reportabl	e levels		3 - < 5

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.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

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.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

General information protect themselves. 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.

Fire fighting equipment/instructions

Use water spray to cool unopened containers.

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.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

Small Spills: 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

Avoid breathing dust/fume/gas/mist/vapours/spray. 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).

8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

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.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

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.

9. Physical and chemical properties

Solid. **Appearance** Physical state Solid. **Form** Solid.

> Not available. Colour

Odour Mild.

Odour threshold Not available. Not available. Not available. Melting point/freezing point

Initial boiling point and boiling

range

245 °C (473 °F) estimated

Flash point 129.4 °C (265.0 °F) estimated

Evaporation rate Not available. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Explosive limit - lower (%) Not available. Explosive limit - upper

(%)

Not available.

Not available. Vapour pressure Not available. Vapour density Not available. Relative density

Solubility(ies)

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

(n-octanol/water)

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

Other information

Density 1.18 g/cm3 estimated

Not explosive. **Explosive properties Oxidising properties** Not oxidising.

Specific gravity 1.18 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

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 effects

Acute toxicity Not known.

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 available.

Reproductive toxicityThis 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.

12. Ecological information

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

No data available.

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 instructionsCollect 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 Annex II of MARPOL 73/78 and

Not applicable.

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.

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
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)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

SDS CANADA

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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 date28-May-2019Revision date28-July-2023

Version No. 07

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.

SAFETY DATA SHEET

1. Identification

Product identifier DEVCON® DFense Blok™ Fast Cure (FC) Hardener

Other means of identification

5206 SKU#

Recommended use Not available. Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information **ITW Performance Polymers** Company name

Address 35 Brownridge Rd

Unit 1

Halton Hills, ON L7G 0C6

Customer Service Contact person Telephone number 978-777-1100

Fax E-mail

Emergency telephone

number

800-424-9300

Not available. **Supplier**

2. Hazard identification

Physical hazards Not classified.

Health hazards Category 4 Acute toxicity, oral

Not classified.

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

Environmental hazards

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. May cause allergy or asthma symptoms or breathing

difficulties if inhaled. 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. Wear respiratory protection.

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

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.

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Store locked up. Storage

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

Supplemental information Other hazards None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Bauxite		92797-42-7	40 - 70
PHENOL, STYRENATED		61788-44-1	7 - 13
Diethylenetriamine		111-40-0	3 - 7
Aminoethylpiperazine		140-31-8	1 - 5
Triethylolamine		102-71-6	1 - 5
Piperazine		110-85-0	< 1
Titanium dioxide	Titanium dioxide	13463-67-7	< 1
Other components below re	eportable levels		10 - < 20

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

4. First-aid measures

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation

Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: call a

poison centre or doctor / physician.

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 eyes 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

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

General information

Ingestion

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. Difficulty in breathing.

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water 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 observation. Symptoms may be delayed.

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

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.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

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.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

Small Spills: 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

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. Avoid prolonged exposure. 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 in a well-ventilated place. 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)
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Components	Type	Value	Form
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	
Piperazine (CAS 110-85-0)	TWA	0.03 ppm	Inhalable fraction and vapour.
Titanium dioxide (CAS 13463-67-7)	TWA	2.5 mg/m3	Respirable finescale particles
		0.2 mg/m3	Respirable nanoscale particles
Triethylolamine (CAS 102-71-6)	TWA	5 mg/m3	

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

Components	Туре	Value	
Diethylenetriamine (CAS 111-40-0)	TWA	4.2 mg/m3	
		1 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Triethylolamine (CAS 102-71-6)	TWA	5 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
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	
Piperazine (CAS 110-85-0)	STEL	1 mg/m3	
	TWA	0.3 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
·		10 mg/m3	Total dust.

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

Components	Туре	Value	Form
Friethylolamine (CAS 102-71-6)	TWA	5 mg/m3	
Canada. Manitoba OELs (Reg. 217/20 Components	06, The Workplace Safety Ar Type	nd Health Act), as amended Value	Form
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	
Piperazine (CAS 110-85-0)	TWA	0.03 ppm	Inhalable fraction and vapour.
Fitanium dioxide (CAS 13463-67-7)	TWA	2.5 mg/m3	Respirable finescale particles
		0.2 mg/m3	Respirable nanoscale particles
riethylolamine (CAS 02-71-6)	TWA	5 mg/m3	
Canada. New Brunswick OELs: Three Publication (New Brunswick Regulati		sed on the 1991 and 1997 AC	GIH TLVs and BEIs
Components	Туре	Value	
Diethylenetriamine (CAS 111-40-0)	TWA	4.2 mg/m3	
·		1 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Friethylolamine (CAS 102-71-6)	TWA	5 mg/m3	
Canada. Ontario OELs. (Control of Ex Components	cposure to Biological or Che Type	mical Agents), as amended Value	Form
Diethylenetriamine (CAS	TWA	1 ppm	
Piperazine (CAS 110-85-0)	TWA	0.03 ppm	Inhalable fraction and vapour.
Γitanium dioxide (CAS	TWA	10 mg/m3	
Triethylolamine (CAS 102-71-6)	TWA	3.1 mg/m3	
(3463-67-7) Friethylolamine (CAS	TWA	3.1 mg/m3 0.5 ppm	
13463-67-7) Friethylolamine (CAS 102-71-6) Canada. Quebec OELs. (Ministry of L		0.5 ppm	ety), as amended Form
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3463-67-7) Triethylolamine (CAS 02-71-6) Canada. Quebec OELs. (Ministry of L Components Diethylenetriamine (CAS	abor - Regulation respecting Type	0.5 ppm occupational health and saf Value	-
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13463-67-7) Friethylolamine (CAS	abor - Regulation respecting Type TWA	0.5 ppm Joccupational health and saf Value 4.2 mg/m3 1 ppm	Form
13463-67-7) Friethylolamine (CAS 102-71-6) Canada. Quebec OELs. (Ministry of L Components Diethylenetriamine (CAS 111-40-0) Fitanium dioxide (CAS 13463-67-7) Friethylolamine (CAS	abor - Regulation respecting Type TWA TWA TWA	0.5 ppm y occupational health and saf Value 4.2 mg/m3 1 ppm 10 mg/m3 5 mg/m3	Form Total dust.
Triethylolamine (CAS 102-71-6) Canada. Quebec OELs. (Ministry of L Components Diethylenetriamine (CAS 111-40-0) Fitanium dioxide (CAS 13463-67-7) Friethylolamine (CAS 102-71-6) Canada. Saskatchewan OELs (Occup	abor - Regulation respecting Type TWA TWA TWA	0.5 ppm y occupational health and saf Value 4.2 mg/m3 1 ppm 10 mg/m3 5 mg/m3	Form Total dust.
Triethylolamine (CAS 102-71-6) Canada. Quebec OELs. (Ministry of L Components Diethylenetriamine (CAS 111-40-0) Titanium dioxide (CAS 13463-67-7) Triethylolamine (CAS 102-71-6) Canada. Saskatchewan OELs (Occup Components Diethylenetriamine (CAS	abor - Regulation respecting Type TWA TWA TWA TWA Dational Health and Safety Re	0.5 ppm y occupational health and safe Value 4.2 mg/m3 1 ppm 10 mg/m3 5 mg/m3 egulations, 1996, Table 21), as	Form Total dust.
13463-67-7) Friethylolamine (CAS 102-71-6) Canada. Quebec OELs. (Ministry of L Components Diethylenetriamine (CAS 111-40-0) Fitanium dioxide (CAS 13463-67-7) Friethylolamine (CAS 102-71-6)	abor - Regulation respecting Type TWA TWA TWA TWA pational Health and Safety Re	0.5 ppm y occupational health and safe Value 4.2 mg/m3 1 ppm 10 mg/m3 5 mg/m3 egulations, 1996, Table 21), as Value	Form Total dust.
13463-67-7) Friethylolamine (CAS 102-71-6) Canada. Quebec OELs. (Ministry of L Components Diethylenetriamine (CAS 111-40-0) Fitanium dioxide (CAS 13463-67-7) Friethylolamine (CAS 102-71-6) Canada. Saskatchewan OELs (Occup Components Diethylenetriamine (CAS	abor - Regulation respecting Type TWA TWA TWA TWA Pational Health and Safety Re Type 15 minute	0.5 ppm y occupational health and safe Value 4.2 mg/m3 1 ppm 10 mg/m3 5 mg/m3 egulations, 1996, Table 21), as Value 2 ppm	Form Total dust.

Material name: DEVCON® DFense Blok™ Fast Cure (FC) Hardener

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

Exposure guidelines

Canada - Alberta OELs: Skin designation

Diethylenetriamine (CAS 111-40-0)

Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Diethylenetriamine (CAS 111-40-0)

Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Diethylenetriamine (CAS 111-40-0)

Danger of cutaneous absorption

Canada - Ontario OELs: Skin designation

Diethylenetriamine (CAS 111-40-0)

Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Diethylenetriamine (CAS 111-40-0)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Can be absorbed through the skin.

Diethylenetriamine (CAS 111-40-0)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Diethylenetriamine (CAS 111-40-0)

Danger of cutaneous absorption

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. General ventilation normally adequate. 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 When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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 Solid.
Physical state Solid.
Form Solid.
Colour Amber

Odour Ammoniacal. fishy
Odour threshold Not available.
pH Not available.

Melting point/freezing point -39 °C (-38.2 °F) estimated

Initial boiling point and boiling

range

Not available.

Flash point 107.0 °C (224.6 °F) estimated

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits
Explosive limit - lower (%) Not available.

Explosive limit – upper

Not available.

(%)

Vapour pressure 0.19 hPa estimated
Vapour density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 398.9 °C (750.02 °F) estimated

Decomposition temperatureNot available. **Viscosity**Not available.

Other information

Density 1.00 g/cm3 estimated

Explosive properties Not explosive.

Oxidising properties Not oxidising.

Specific gravity 1 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.

reactions

Conditions to avoidContact with incompatible materials.

Incompatible materials Strong acids.

Hazardous decompositionNo hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Prolonged inhalation may be harmful.

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

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

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. Difficulty in breathing.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

Titanium dioxide (CAS 13463-67-7)

Acute Dermal

LD50 Hamster >= 10000 mg/kg

Oral

LD50 Rat > 10000 mg/kg

Triethylolamine (CAS 102-71-6)

Acute Dermal

LD50 Rabbit > 20000 mg/kg

Oral

LD50 Rat 8 g/kg

Skin corrosion/irritationCauses severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitisation

ACGIH sensitisation

Piperazine and salts, inhalable fraction and vapor, as

piperazine (CAS 110-85-0)

Dermal sensitisation

Respiratory sensitisation

Canada - Alberta OELs: Irritant

Diethylenetriamine (CAS 111-40-0) Irritant
Titanium dioxide (CAS 13463-67-7) Irritant
Triethylolamine (CAS 102-71-6) Irritant

Canada - Manitoba OELs Hazard: Dermal sensitization

Piperazine (CAS 110-85-0) Dermal sensitisation

Canada - Manitoba OELs Hazard: Respiratory sensitization

Piperazine (CAS 110-85-0) Respiratory sensitisation

Canada - Quebec OELs: Sensitizer

Triethylolamine (CAS 102-71-6) Sensitiser.

Respiratory sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

ACGIH Carcinogens

Piperazine (CAS 110-85-0)

A4 Not classifiable as a human carcinogen.

Titanium dioxide (CAS 13463-67-7)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Canada - Manitoba OELs: carcinogenicity

Piperazine (CAS 110-85-0) Not classifiable as a human carcinogen.

Titanium dioxide (CAS 13463-67-7)

Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Triethylolamine (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

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. May be harmful if absorbed through skin.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

12. Ecological information

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

Partition coefficient n-octanol / water (log Kow)

Aminoethylpiperazine -1.57
Piperazine -1.5
Triethylolamine -1

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 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 UN3263

UN proper shipping name Transport hazard class(es) CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Aminoethylpiperazine), Limited Quantity

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

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

IATA

UN3263 **UN** number

UN proper shipping name

Transport hazard class(es)

Corrosive solid, basic, organic, n.o.s. (Aminoethylpiperazine), Limited Quantity

8 Class Subsidiary risk Packing group Ш **Environmental hazards** No. **ERG Code** 81

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

Other information

Allowed with restrictions.

Passenger and cargo aircraft

Cargo aircraft only

Allowed with restrictions.

Not applicable.

IMDG

UN number UN3263

UN proper shipping name Transport hazard class(es) CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Aminoethylpiperazine), Limited Quantity

8 Class Subsidiary risk Ш Packing group **Environmental hazards**

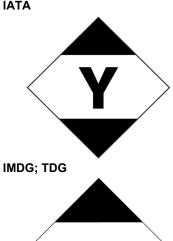
Marine pollutant No. **EmS** F-A, S-B

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





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 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)	Yes
New Zealand	New Zealand Inventory	No

Country(s) or region Inventory name On inventory (yes/no)*

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

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

Issue date29-May-2019Revision date31-July-2023

Version No. 07

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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.