

SAFETY DATA SHEET

1. Identification

Product identifier DEVCON® DFense Blok™ Quick Patch Hardener

Other means of identification

SKU# 5208

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 person Customer 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 Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

Sensitization, skin Category 1

Reproductive toxicity Category 2

Environmental hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. 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. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. 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 Store locked up.

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

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 - 70
ALUMINATE SILICATE		1327-36-2	10 - 30
2,4,6-tris-(dimethylaminomethyl)-phenol		90-72-2	5 - 10
4,4'-Isopropylidenediphenol		80-05-7	< 1
Diethylenetriamine		111-40-0	< 1
Bis[2-(dimethylaminoethyl) Ether]		3033-62-3	< 0.3
Other components below reportable levels			15 - 40

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. 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. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	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	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	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	<p>Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water.</p> <p>Small Spills: Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
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. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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. 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 (TLV)

Components	Type	Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable fraction.
Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)	STEL	0.15 ppm	
	TWA	0.05 ppm	
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	

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

Components	Type	Value	Form
Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)	STEL	0.9 mg/m3	
		0.15 ppm	
	TWA	0.3 mg/m3	
		0.05 ppm	
CORUNDUM (CAS 1302-74-5)	TWA	10 mg/m3	
Diethylenetriamine (CAS 111-40-0)	TWA	4.2 mg/m3	
		1 ppm	

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

Components	Type	Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable.
Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)	STEL	0.15 ppm	
	TWA	0.05 ppm	
CORUNDUM (CAS 1302-74-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	

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

Components	Type	Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable fraction.
Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)	STEL	0.15 ppm	
	TWA	0.05 ppm	
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	

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
Diethylenetriamine (CAS 111-40-0)	TWA	4.2 mg/m3
		1 ppm

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

Components	Type	Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	TWA	1 mg/m3	Respirable fraction.
Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)	STEL	0.15 ppm	
	TWA	0.05 ppm	
CORUNDUM (CAS 1302-74-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	

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

Components	Type	Value	Form
CORUNDUM (CAS 1302-74-5)	TWA	10 mg/m3	Total dust.
Diethylenetriamine (CAS 111-40-0)	TWA	4.2 mg/m3	
		1 ppm	

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

Components	Type	Value	Form
ALUMINATE SILICATE (CAS 1327-36-2)	15 minute	20 mg/m3	Dust.
Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)	15 minute	0.15 ppm	
	8 hour	0.05 ppm	
CORUNDUM (CAS 1302-74-5)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
Diethylenetriamine (CAS 111-40-0)	15 minute	2 ppm	
	8 hour	1 ppm	

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

Exposure guidelines

Canada - Alberta OELs: Skin designation

Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3) Can be absorbed through the skin.
Diethylenetriamine (CAS 111-40-0) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3) Can be absorbed through the skin.
Diethylenetriamine (CAS 111-40-0) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3) Danger of cutaneous absorption
Diethylenetriamine (CAS 111-40-0) Danger of cutaneous absorption

Canada - Ontario OELs: Skin designation

Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3) Can be absorbed through the skin.
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.

Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)

Can be absorbed through the skin.

Diethylenetriamine (CAS 111-40-0)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)

Danger of cutaneous absorption

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. 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).

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

Observe any medical surveillance requirements. 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

Not available.

Initial boiling point and boiling range

Not available.

Flash point

93.3 °C (200.0 °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

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**1.05 g/cm³ estimated

Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Specific gravity	1.05 estimated

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	Avoid temperatures exceeding the flash point. 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	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
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Information on toxicological effects

Acute toxicity	Not known.
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Components	Species	Test Results
2,4,6-tris-(dimethylaminomethyl)-phenol (CAS 90-72-2)		
<u>Acute</u>		
Dermal		
LD50	Rat	1280 mg/kg
Oral		
LD50	Rat	1200 mg/kg
4,4'-Isopropylidenediphenol (CAS 80-05-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	3000 mg/kg
Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	314 mg/kg
Oral		
LD50	Rat	909 mg/kg

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

Bis[2-(dimethylaminoethyl) Ether] (CAS 3033-62-3)	Irritant
CORUNDUM (CAS 1302-74-5)	Irritant
Diethylenetriamine (CAS 111-40-0)	Irritant

Respiratory sensitisation	Not a respiratory sensitiser.
Skin sensitisation	May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

ACGIH Carcinogens

ALUMINATE SILICATE (CAS 1327-36-2)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

ALUMINATE SILICATE (CAS 1327-36-2)

Not classifiable as a human carcinogen.

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.

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)

4,4'-Isopropylidenediphenol

3.32

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

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 the IBC Code Not applicable.

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)	No
Canada	Non-Domestic Substances List (NDSL)	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)	No
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 "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 date 29-May-2019

Revision date 28-July-2023

Version No. 05

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.