# SAFETY DATA SHEET



## 1. Identification

Product identifier DV-38

Other means of identification

Brand Code 5251

Recommended use For Industrial Use Only

**Recommended restrictions** Avoid dry cutting, blasting, or dust generation.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HarbisonWalker International

Address 1305 Cherrington Parkway, Suite 100

Moon Township Pennsylvania 15108 US

**Telephone** General Phone: 412-375-6600

Website www.thinkHWI.com

Emergency phone number CHEMTREC 24 HOUR 1-800-424-9300

**EMERGENCY #** 

Supplier Not available.

# 2. Hazard(s) identification

#### Classified hazards

This item is defined as an article per OSHA, REACH, and WHMIS and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

## Label elements

This item is defined as an article per OSHA, REACH, and WHMIS and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

#### Other hazards

This item is defined as an article per OSHA, REACH, and WHMIS and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

## 3. Composition/information on ingredients

## Mixtures

Chemical name	Common name and synonyms	CAS number	%
ALPHA-ALUMINA		1344-28-1	40 - 60
Mullite		1302-93-8	20 - 40
FIBROUS GLASS		65997-17-3	2.5 - 10
SILICA, AMORPHOUS, FUMED	SILICA, AMORPHOUS, FUMED SILICA (CRYSTALLINE FREE)	7631-86-9	1 - 2.5
SILICA, CRYSTALLINE, CRISTOBALITE		14464-46-1	1 - 2.5
Other components below reportable levels			2.5 - 10

Material name: DV-38 SDS CANADA

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

Crystalline silica may be present at low concentrations; most of this is encapsulated in the coarse aggregate or as part of the clays or sands.

## 4. First-aid measures

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

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Prolonged exposure may cause chronic effects.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

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 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.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Not available.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment and precautions for firefighters Not available.

### 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. 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

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

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

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

US. ACGIH	Threshold	Limit Va	lues
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Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.

## nada Albarta OELa (Occupational Health & Safaty Code, Sabadula 1, Table 2)

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	10 mg/m3	
FIBROUS GLASS (CAS 65997-17-3)	TWA	0.2 fibers/cm3	Fiber.
		5 mg/m3	Fiber, total

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	Туре	Value	Form
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	5 mg/m3 0.025 mg/m3	Total particulate. Respirable.
11101 10 1)		0.025 mg/m3	Respirable particles.
Canada. British Columbia C Safety Regulation 296/97, a	DELs. (Occupational Exposure Limits amended)	for Chemical Substances, Oc	cupational Health and
Components	Туре	Value	Form
FIBROUS GLASS (CAS 65997-17-3)	TWA	0.2 fibers/cm3	Fiber.
SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)	TWA	5 mg/m3 4 mg/m3	Inhalable fibers. Total
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	1.5 mg/m3 0.025 mg/m3	Respirable. Respirable fraction.
Canada. Manitoba OELs (R Components	eg. 217/2006, The Workplace Safety A Type	and Health Act) Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Ontario OELs. (Co Components	ntrol of Exposure to Biological or Ch Type	emical Agents) Value	Form
FIBROUS GLASS (CAS 65997-17-3)	TWA	0.5 fibers/ml	Respirable fibers.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	5 mg/m3 0.05 mg/m3	Inhalable fraction. Respirable fraction.
Canada. Quebec OELs. (Mi Components	nistry of Labor - Regulation Respecti Type	ng the Quality of the Work Env Value	vironment) Form
ALDUA ALLUMINA (C.)	TWA	10 mg/m3	Total dust.
ALPHA-ALUMINA (CAS 1344-28-1)			
ALPHA-ALUMINA (CAS 1344-28-1) FIBROUS GLASS (CAS 65997-17-3)	TWA	1 fibers/cm3n	Fiber.
1344-28-1) FIBROUS GLASS (CAS 65997-17-3) SILICA, AMORPHOUS,	TWA	1 fibers/cm3n 10 mg/m3 6 mg/m3	Fiber.  Total dust.  Respirable dust.
1344-28-1) FIBROUS GLASS (CAS 65997-17-3)  SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) SILICA, CRYSTALLINE, CRISTOBALITE (CAS		10 mg/m3	Total dust.
1344-28-1) FIBROUS GLASS (CAS 65997-17-3)  SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	10 mg/m3 6 mg/m3 0.05 mg/m3	Total dust. Respirable dust.
1344-28-1) FIBROUS GLASS (CAS 65997-17-3)  SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)  logical limit values	TWA TWA	10 mg/m3 6 mg/m3 0.05 mg/m3 or the ingredient(s).	Total dust. Respirable dust. Total dust.
1344-28-1) FIBROUS GLASS (CAS 65997-17-3)  SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1) logical limit values osure guidelines	TWA  TWA  No biological exposure limits noted for Occupational exposure to nuisance d	10 mg/m3 6 mg/m3 0.05 mg/m3 or the ingredient(s). ust (total and respirable) and respirable, and respirable, use process enclosure tain airborne levels below recom	Total dust. Respirable dust. Total dust.  Total dust.  spirable crystalline silicate used. Ventilation rates es, local exhaust ventilation mended exposure limits.
1344-28-1) FIBROUS GLASS (CAS 65997-17-3)  SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)  logical limit values losure guidelines  propriate engineering trols	TWA  TWA  No biological exposure limits noted for Occupational exposure to nuisance dishould be monitored and controlled.  Good general ventilation (typically 10 should be matched to conditions. If all or other engineering controls to maintenance.	10 mg/m3 6 mg/m3 0.05 mg/m3 or the ingredient(s). ust (total and respirable) and respirable, use process enclosure tain airborne levels below recomshed, maintain airborne levels to ent	Total dust. Respirable dust. Total dust.  Total dust.  spirable crystalline silica e used. Ventilation rates es, local exhaust ventilation mended exposure limits. o an acceptable level.
1344-28-1) FIBROUS GLASS (CAS 65997-17-3)  SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1) logical limit values osure guidelines propriate engineering trols	TWA  TWA  No biological exposure limits noted for Occupational exposure to nuisance d should be monitored and controlled.  Good general ventilation (typically 10 should be matched to conditions. If an or other engineering controls to maint exposure limits have not been establi , such as personal protective equipm	10 mg/m3 6 mg/m3 0.05 mg/m3 or the ingredient(s). ust (total and respirable) and respirable, and respirable, and respirable, use process enclosure tain airborne levels below recompled, maintain airborne levels to ent side shields are recommended	Total dust. Respirable dust. Total dust.  Total dust.  spirable crystalline silica e used. Ventilation rates es, local exhaust ventilation mended exposure limits. o an acceptable level.

Material name: DV-38 SDS CANADA

Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

Wear appropriate thermal protective clothing, when necessary.

exceeding the exposure limits.

Thermal hazards



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.

## 9. Physical and chemical properties

**Appearance** 

Solid. Physical state

**Form** Brick or Cast Shape Solid.

Color Not available. Odor Not available. **Odor threshold** Not available. Not available. pН Melting point/freezing point Not available.

Initial boiling point and boiling range

Not available.

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

Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available.

Not available.

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

Not available. Vapor pressure Not available. Vapor density Relative density Not available.

Solubility(ies)

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

(n-octanol/water)

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

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Material name: DV-38 SDS CANADA Incompatible materials Strong oxidizing agents.

Incompatibility is based strictly upon potential theoretical reactions between chemicals and may

not be specific to industrial application exposure.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

FIBROUS GLASS (CAS 65997-17-3) Irritant SILICA, CRYSTALLINE, CRISTOBALITE (CAS Irritant

14464-46-1)

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

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

mutagenic or genotoxic.

Carcinogenicity In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the

overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory

occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline

silica should be monitored and controlled. Risk of cancer cannot be excluded with prolonged exposure.

**ACGIH Carcinogens** 

ALPHA-ALUMINA (CAS 1344-28-1)

A4 Not classifiable as a human carcinogen.

FIBROUS GLASS (CAS 65997-17-3)

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

A2 Suspected human carcinogen.

A2 Suspected human carcinogen.

14464-46-1)

14464-46-1)

Canada - Alberta OELs: Carcinogen category

FIBROUS GLASS (CAS 65997-17-3)

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

Suspected human carcinogen.

Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

ALPHA-ALUMINA (CAS 1344-28-1)

Not classifiable as a human carcinogen.

FIBROUS GLASS (CAS 65997-17-3)

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

Suspected human carcinogen.

14464-46-1)

Material name: DV-38 SDS CANADA

Canada - Quebec OELs: Carcinogen category

FIBROUS GLASS (CAS 65997-17-3) Detected carcinogenic effect in animals. SILICA, CRYSTALLINE, CRISTOBALITE (CAS Detected carcinogenic effect in animals.

14464-46-1)

IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

SILICA, CRYSTALLINE, CRISTOBALITE (CAS 1 Carcinogenic to humans.

14464-46-1)

US. National Toxicology Program (NTP) Report on Carcinogens

FIBROUS GLASS (CAS 65997-17-3) Reasonably Anticipated to be a Human Carcinogen.

SILICA, CRYSTALLINE, CRISTOBALITE (CAS Known To Be Human Carcinogen.

14464-46-1)

Reasonably Anticipated to be a Human Carcinogen.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Not an aspiration hazard. **Aspiration hazard** 

**Chronic effects** Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may

cause chronic effects.

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.

Persistence and degradability No data is available on the degradability of this product.

No data available. Bioaccumulative potential No data available. Mobility in soil

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** This product, in its present state, when discarded or disposed of, is not a hazardous waste

according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria

for hazardous waste.

Hazardous waste code Since this product is used in several industries, no Waste Code can be provided by the supplier.

The Waste Code should be determined in arrangement with your waste disposal partner or the

responsible authority.

Waste from residues / unused

products

Not available.

Not available. Contaminated packaging

14. Transport information

**TDG** 

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

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

the IBC Code

15. Regulatory information

Canadian regulations

**Controlled Drugs and Substances Act** 

Not regulated.

Material name: DV-38 SDS CANADA

# 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**

FIBROUS GLASS (CAS 65997-17-3)

## **International Inventories**

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>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** 09-18-2018

Version # 01

United States & Puerto Rico

**Disclaimer** This information is based on our present knowledge on creation date. However, this shall not

Toxic Substances Control Act (TSCA) Inventory

constitute a guarantee for any specific product features and shall not establish a legally valid

contractual relationship.

Revision information Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: After Reaction Composition

GHS: Classification

Inventory name

Material name: DV-38 SDS CANADA

5251 Version #: 01 Issue date: 09-18-2018

No

On inventory (yes/no)\*