

# DOW CORNING(R) 795 BUILDING SEALANT-ANODIZED ALUMINUM

Version 1.2 Revision Date:

02/10/2016

SDS Number:

1197257-00003

Date of last issue: 10/08/2015

Date of first issue: 02/05/2015

SECTION 1. IDENTIFICATION

Product name

: DOW CORNING(R) 795 BUILDING SEALANT-ANODIZED

ALUMINUM

Product code

: 00000000004111925

Manufacturer or supplier's details

Company name of supplier

**Dow Corning Corporation** 

Address

South Saginaw Road

Midland Michigan 48686

Telephone

(989) 496-6000

Emergency telephone

24 Hour Emergency Telephone: (989) 496-5900

CHEMTREC: (800) 424-9300

Recommended use of the chemical and restrictions on use

Recommended use

Construction materials and additives

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

**Precautionary Statements** 

: Prevention:

P271 Use only outdoors or in a well-ventilated area.

Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: Silicone elastomer

## Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Calcium carbonate	471-34-1	>= 30 - < 50
Amorphous fumed silica	112945-52-5	>= 1 - < 5
Chromium oxide	1308-38-9	>= 1 - < 5
Quartz	14808-60-7	>= 0.1 - < 1



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#### **SECTION 4. FIRST AID MEASURES**

If inhaled

: If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact

: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

In case of eye contact

: Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed

: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

Protection of first-aiders

: None known.

delayed

: No special precautions are necessary for first aid responders.

Notes to physician

: Treat symptomatically and supportively.

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

: Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing media

: None known.

Specific hazards during fire

fighting

: Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

Carbon oxides Metal oxides Silicon oxides

Formaldehyde Chromium compounds

Specific extinguishing meth-

ods

: Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Special protective equipment

for fire-fighters

: Wear self-contained breathing apparatus for firefighting if nec-

Use personal protective equipment.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emergency procedures

Personal precautions, protec- : Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions

: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

### **SECTION 7. HANDLING AND STORAGE**

Technical measures

: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation

: Use only with adequate ventilation.

Advice on safe handling

: Avoid prolonged or repeated contact with skin.

Handle in accordance with good industrial hygiene and safety

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage

: Keep in properly labeled containers.

Store in accordance with the particular national regulations.

Materials to avoid

: Do not store with the following product types:

Strong oxidizing agents

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

	Ingredients	CAS-No.	Value type	Control parame-	Basis
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		(Form of exposure)	ters / Permissible concentration	
Calcium carbonate	471-34-1	TWA (Res- pirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
Amorphous fumed silica	112945-52-5	TWA (Dust)	20 Million partic- les per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL
Chromium oxide	1308-38-9	TWA	0.5 mg/m3 (chromium)	OSHA Z-1
	9	TWA	0.5 mg/m3 (chromium)	ACGIH
		TWA	0.5 mg/m3 (chromium)	NIOSH REL
Quartz	14808-60-7	TWA (total dust)	30 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
113		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Res- pirable dust)	0.05 mg/m3 (Silica)	NIOSH REL

### **Engineering measures**

: Processing may form hazardous compounds (see section

10).

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

### Personal protective equipment

Respiratory protection

: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection



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Remarks

: For prolonged or repeated contact use protective gloves. Wash hands before breaks and at the end of workday.

Eye protection

: Wear the following personal protective equipment:

Safety glasses

Skin and body protection

: Skin should be washed after contact.

Hygiene measures

: Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may re-

quire added precautions.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: paste

Color

in accordance with the product description

Odor

alcohol-like

Odor Threshold

No data available

pH

Not applicable

Melting point/freezing point

No data available

Initial boiling point and boiling

range

: Not applicable

Flash point

: Not applicable

Evaporation rate

: Not applicable

Flammability (solid, gas)

: Not classified as a flammability hazard

Upper explosion limit

No data available

Lower explosion limit

: No data available

Vapor pressure

: Not applicable

Relative vapor density

: No data available

Relative density

: 1.53

Solubility(ies)

Water solubility

: No data available



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Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature

: No data available

Decomposition temperature

: No data available

Viscosity

Viscosity, dynamic

: Not applicable

Explosive properties

: Not explosive

Oxidizing properties

: The substance or mixture is not classified as oxidizing.

Molecular weight

: No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Not classified as a reactivity hazard.

Chemical stability

: Stable under normal conditions.

Possibility of hazardous reac-

tions

: Use at elevated temperatures may form highly hazardous

compounds.

Can react with strong oxidizing agents.

Methyl alcohol is formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated

temperatures.

Conditions to avoid

: None known.

Incompatible materials

: Oxidizing agents

Hazardous decomposition products

Thermal decomposition

: Benzene

Formaldehyde

#### SECTION 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

### Ingredients:

### Calcium carbonate:

Acute oral toxicity

: LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral tox-

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icity

Acute inhalation toxicity

: LC50 (Rat): > 3 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity

: LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Amorphous fumed silica:

Acute oral toxicity

: LD50 (Rat): > 20,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Remarks: Information taken from reference works and the

literature.

Chromium oxide:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity

: LC50 (Rat): > 5.41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Quartz:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

Ingredients:

Calcium carbonate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Chromium oxide:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Ingredients:

Calcium carbonate:

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Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Chromium oxide:

Species: Rabbit Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Ingredients:

Calcium carbonate:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

Chromium oxide:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Remarks: Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Calcium carbonate:

Genotoxicity in vitro

: Test Type: In vitro mammalian cell gene mutation test

Result: negative

Chromium oxide:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo

: Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Not classified based on available information.

Ingredients:

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Chromium oxide:

Species: Rat

Application Route: Ingestion Exposure time: 2 Years Result: negative

Quartz:

Species: Humans

Application Route: inhalation (dust/mist/fume)

Result: positive

Remarks: IARC (International Agency for Research on Cancer)

The substance is inextricably bound in the product and therefore does not contribute to a dust

inhalation hazard.

Carcinogenicity - Assess-

ment

: Positive evidence from human epidemiological studies (inhala-

tion)

IARC

Group 1: Carcinogenic to humans

Quartz

14808-60-7

**OSHA** 

No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP

Known to be human carcinogen

Quartz

14808-60-7

### Reproductive toxicity

Not classified based on available information.

### Ingredients:

Calcium carbonate:

Effects on fertility

: Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Effects on fetal development

: Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Chromium oxide:

Effects on fetal development

Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion

Result: negative



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Remarks: Based on data from similar materials

## STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

### Ingredients:

#### Quartz:

Routes of exposure: inhalation (dust/mist/fume)

Target Organs: Lungs

Assessment: Shown to produce significant health effects in animals at concentrations of 0.02

mg/l/6h/d or less.

### Repeated dose toxicity

#### Ingredients:

### Calcium carbonate:

Species: Rat

NOAEL: 1,000 mg/kg Application Route: Ingestion Exposure time: 6 Weeks

Method: OECD Test Guideline 422

#### Chromium oxide:

Species: Rat

NOAEL: 2,000 mg/kg

Application Route: Ingestion Exposure time: 90 Days

#### Quartz:

Species: Humans

LOAEL: 0.053 mg/m3

Application Route: Inhalation

Remarks: OECD SIDS

The substance is inextricably bound in the product and therefore does not contribute to a dust

inhalation hazard.

### Aspiration toxicity

Not classified based on available information.

### SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Ingredients:

#### Calcium carbonate:

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

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Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae

: ErC50 (Desmodesmus subspicatus (green algae)): > 14 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Chromium oxide:

Toxicity to fish

: LC50 (Danio rerio (zebra fish)): > 10,000 mg/l

Exposure time: 96 h

Toxicity to algae

: EC50 (Desmodesmus subspicatus (green algae)): > 848.6

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

: NOEC (Danio rerio (zebra fish)): 1,000 mg/l

Exposure time: 30 d

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

: NOEC (Daphnia magna (Water flea)): > 0.02 mg/l

Exposure time: 21 d

Remarks: No toxicity at the limit of solubility.

Toxicity to bacteria

: EC50: > 10,000 mg/l Exposure time: 3 h

Quartz:

**Ecotoxicology Assessment** 

Acute aquatic toxicity

: No toxicity at the limit of solubility.

Chronic aquatic toxicity

: No toxicity at the limit of solubility.

Persistence and degradability

No data available

Bioaccumulative potential

Ingredients:

Chromium oxide:

Bioaccumulation

: Species: Fish

Bioconcentration factor (BCF): 260 - 800

Mobility in soil

No data available

Other adverse effects

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS** 

Disposal methods

Resource Conservation and Recovery Act (RCRA)

: This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.

Waste from residues

: Dispose of in accordance with local regulations.

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

**SECTION 14. TRANSPORT INFORMATION** 

International Regulation

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**Domestic regulation** 

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

**CERCLA Reportable Quantity** 

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Toluene	108-88-3	1000	*
Methanol	67-56-1	5000	*
Ethylenediamine	107-15-3	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

Ingredients CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
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Ethylenediamine

107-15-3

5000

\*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards

: No SARA Hazards

**SARA 302** 

: No chemicals in this material are subject to the reporting re-

guirements of SARA Title III, Section 302.

**SARA 313** 

: The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Chromium oxide

1308-38-9

2.6 %

### **US State Regulations**

### Pennsylvania Right To Know

0.1.	471-34-1	30 - 50 %
Calcium carbonate	1911 J. 1937 P. M	
Dimethyl siloxane, hydroxy-terminated	70131-67-8	20 - 30 %
Dimethyl siloxane, trimethylsiloxy-terminated	63148-62-9	10 - 20 %
Amorphous fumed silica	112945-52-5	1 - 5 %
Methanol	67-56-1	0 - 0.1 %
Toluene	108-88-3	0 - 0.1 %
Aluminium	7429-90-5	0 - 0.1 %

## New Jersey Right To Know

Calcium carbonate	471-34-1	30 - 50 %
Dimethyl siloxane, hydroxy-terminated	70131-67-8	20 - 30 %
Dimethyl siloxane, trimethylsiloxy-terminated	63148-62-9	10 - 20 %
Amorphous fumed silica	112945-52-5	1 - 5 %
Chromium oxide	1308-38-9	1 - 5 %
Quartz	14808-60-7	0.1 - 1 %

California Prop. 65

WARNING! This product contains a chemical known in the

State of California to cause cancer.

Cobalt titanite green spinel

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive

harm.

Methanol Toluene

67-56-1 108-88-3

68186-85-6

## The ingredients of this product are reported in the following inventories:

**TSCA** 

: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical

Substances.

AICS

: All ingredients listed or exempt.

**IECSC** 

: All ingredients listed or exempt.

**PICCS** 

: All ingredients listed or exempt.

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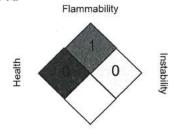
DSL

: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

#### SECTION 16. OTHER INFORMATION

#### Further information

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

### Full text of other abbreviations

**ACGIH** 

: USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits

NIOSH REL OSHA Z-1

USA, Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3

USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA

: 8-hour, time-weighted average

NIOSH REL / TWA

: Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA Z-1 / TWA OSHA Z-3 / TWA : 8-hour time weighted average : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - Interna-





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tional Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR -No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity: SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet

 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8