

# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 1 of 22 Print Date 06/09/2016

# SAFETY DATA SHEET

## DGB0068 Alcoa Royal Brown St.

# **Section 1. Identification**

GHS product identifier : DGB0068 Alcoa Royal Brown St.

Chemical name: MixtureCAS number: MixtureOther means of identification: FO20009548Product type: liquid

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications. Plastics.

Supplier's details : POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

1 (440) 930-1000 or 1 (866) POLYONE

**Emergency telephone number** (with hours of operation)

CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or

accident).

## Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

#### **GHS** label elements



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 2 of 22 Print Date 06/09/2016

Hazard pictograms





Signal word : Danger

**Hazard statements** : Causes eye irritation.

May cause an allergic skin reaction.

May cause cancer.

#### **Precautionary statements**

**General** : Not applicable.

**Prevention**: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid

breathing vapor. Wash hands thoroughly after handling. Contaminated

work clothing must not be allowed out of the workplace.

**Response**: IF exposed or concerned: Get medical attention. IF ON SKIN: Wash

with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical attention.

**Storage** : Store in a well-ventilated place.

**Disposal**: Dispose of contents and container in accordance with all local,

regional, national and international regulations.

**Supplemental label elements** : None known. **Hazards not otherwise classified** : None known.

# Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: FO20009548

#### CAS number/other identifiers

Ingredient name	<b>%</b>	CAS number
Diisodecyl phthalate (mixed isomers)	7.1 - 10	68515-49-1



# DGB0068 Alcoa Royal Brown St.

 Version Number 1.10
 Page 3 of 22

 Revision Date 06/07/2016
 Print Date 06/09/2016

Silica, cristobalite	3 - 5	14464-46-1
Antimony trioxide	1.5 - 3	1309-64-4
Bisphenol A - Epichlorohydrin polymer	1.5 - 3	25068-38-6
Carbon black	0.3 - 1	1333-86-4
Titanium dioxide	0.3 - 1	13463-67-7
Quartz	0.1 - 0.3	14808-60-7
Naphthalene	0.1 - 0.3	91-20-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Page 4 of 22 Revision Date 06/07/2016 Print Date 06/09/2016

removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**: Wash out mouth with water. Remove dentures if any. Remove victim

to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

irritation watering redness

**Inhalation** : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without

suitable training. If it is suspected that fumes are still present, the



## DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 5 of 22 Print Date 06/09/2016

rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or  $CO_2$ .

None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

In a fire or if heated, a pressure increase will occur and the container

may burst.

: May emit Hydrogen Chloride (HCl).

Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

For emergency responders

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective equipment.

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See

also the information in "For non-emergency personnel".



## DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 6 of 22 Print Date 06/09/2016

#### **Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 7 of 22 Print Date 06/09/2016

# Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a well-ventilated place. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

## Occupational exposure limits

Ingredient name	Exposure limits
Bisphenol A - Epichlorohydrin polymer	
Antimony trioxide	OSHA PEL (1993-06-30) expressed as Sb PEL: Permissible Exposure Level 0.5 mg/m3 NIOSH REL (1994-06-01) expressed as Sb Time Weighted Average (TWA) 0.5 mg/m3 OSHA PEL 1989 (1989-03-01) expressed as Sb PEL: Permissible Exposure Level 0.5 mg/m3 ACGIH TLV (1994-09-01)
Titanium dioxide	OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust NIOSH REL (1994-06-01)  ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3
Silica, cristobalite	OSHA PEL 1989 (1989-03-01) Calculated as Quartz PEL: Permissible Exposure Level 0.05 mg/m3 Form: Respirable dust OSHA - PEL Z3 (1997-09-03) Time Weighted Average (TWA) Form: Respirable



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 8 of 22 Print Date 06/09/2016

	Time Weighted Average (TWA) 10 mg/m3 Form: Respirable Time Weighted Average (TWA) 30 mg/m3 Form: Total dust NIOSH REL (1994-06-01) Time Weighted Average (TWA) 0.05 mg/m3 Form: Respirable dust ACGIH TLV (2005-12-09) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.025 mg/m3 Form: Respirable fraction
Diisodecyl phthalate (mixed isomers)	
Carbon black	OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 3.5 mg/m3 OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 3.5 mg/m3 NIOSH REL (1994-06-01) Time Weighted Average (TWA) 3.5 mg/m3 Time Weighted Average (TWA) ACGIH TLV (2010-12-06) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction
Naphthalene	OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 50 mg/m3 10 ppm Short Term Exposure Limit value for a 15-minute reference period expressed in parts per million or in mg/m3. 75 mg/m3 15 ppm OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 50 mg/m3 10 ppm NIOSH REL (1994-06-01) Time Weighted Average (TWA) 50 mg/m3 10 ppm Short Term Exposure Limit value for a 15-minute reference period expressed in parts per million or in mg/m3. 75 mg/m3 15 ppm ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 52 mg/m3 10 ppm
Quartz	OSHA PEL 1989 (1989-03-01) Calculated as Quartz PEL: Permissible Exposure Level 0.1 mg/m3 Form: Respirable dust OSHA - PEL Z3 (1997-09-03) Time Weighted Average (TWA) Form: Respirable Time Weighted Average (TWA) 10 mg/m3 Form: Respirable Time Weighted Average (TWA) 30 mg/m3 Form: Total dust NIOSH REL (1994-06-01)

8/22



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016

**Body protection** 

Other skin protection

Page 9 of 22 Print Date 06/09/2016

Revision Date 06/07/2016		Print Date 06/09/2016
		Time Weighted Average (TWA) 0.05 mg/m3 Form: Respirable dust ACGIH TLV (2005-12-09) TLV-TWA: Threshold Limit Value - Time weighted average PEL:
		Permissible Exposure Level 0.025 mg/m3 Form: Respirable fraction
Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures,

cannot be accurately estimated.

consisting of several substances, the protection time of the gloves

Appropriate footwear and any additional skin protection measures

approved by a specialist before handling this product.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 10 of 22 Print Date 06/09/2016

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

**Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying

with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits

of the selected respirator.

# Section 9. Physical and chemical properties

#### **Appearance**

liquid [liquid] Physical state Color **BROWN** Odor Not available. **Odor threshold** Not available. pН Not available. **Melting point** Not available. **Boiling** point Not available. Flash point Not available. **Burning time** Not available. **Burning rate** Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressure

Vapor density

Relative density

Solubility

Solubility in water

Partition coefficient: n
Not available.

Not available.

Not available.

Not available.

Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.SADT: Not available.

Viscosity : Dynamic: Not available.
Kinematic: Not available.

\_\_\_\_

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or

its ingredients.



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 11 of 22 Print Date 06/09/2016

Chemical stability : Stable under recommended storage and handling conditions (see

Section 7).

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will

not occur.

**Conditions to avoid** : Keep away from extreme heat and oxidizing agents.

Incompatible materials : Avoid contact with acetal homopolymers and acetyl homopolymers

during processing.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

# Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

## **Information on toxicological effects**

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Naphthalene				
	LD50 Oral	Rat	490 mg/kg	-
	LD50 Dermal	Rabbit	20,000 mg/kg	-
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
Titanium dioxide				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Antimony trioxide				
	LD50 Oral	Rat	34,600 mg/kg	-
	LD50 Oral	Rat	34,000 mg/kg	-
Bisphenol A - Epichlorohydr	in polymer			
	LD50 Oral	Rat	13,600 mg/kg	-
	LD50 Oral	Rat	11,400 mg/kg	-
	LD50 Oral	Rat	11,400 mg/kg	-
	LD50 Oral	Rat	30,000 mg/kg	-
	LD50 Oral	Rat	30,000 mg/kg	-
	LD50 Oral	Rat	30,000 mg/kg	-
	LD50 Oral	Rat	30,000 mg/kg	-
	LD50 Oral	Rat	13,600 mg/kg	-
Silica, cristobalite				
Diisodecyl phthalate (mixed	isomers)			
	LD50 Oral	Rat	60,000 mg/kg	-
	LD50 Dermal	Rabbit	16,000 mg/kg	-



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 12 of 22 Print Date 06/09/2016

**Conclusion/Summary**: Mixture.Not fully tested.

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Naphthalene	Skin - Severe irritant	Rabbit		24 hrs	-
	Skin - Mild irritant	Rabbit			-
Titanium dioxide	Skin - Mild irritant	Human		72 hrs	-
Antimony trioxide	Eyes - Mild irritant	Rabbit			-
Bisphenol A - Epichlorohydrin polymer	Eyes - Mild irritant	Rabbit			-
	Eyes - Mild irritant	Rabbit			-
	Skin - Moderate irritant	Rabbit		24 hrs	-
	Skin - Severe irritant	Rabbit		24 hrs	-
	Eyes - Mild irritant	Rabbit			-
Diisodecyl phthalate (mixed isomers)	Eyes - Mild irritant	Rabbit			-

Conclusion/Summary

Skin: Mixture.Not fully tested.Eyes: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

**Sensitization** 

Conclusion/Summary

Skin: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

**Mutagenicity** 

**Conclusion/Summary**: Mixture.Not fully tested.

Carcinogenicity

**Conclusion/Summary** : Mixture.Not fully tested.

Classification



# DGB0068 Alcoa Royal Brown St.

 Version Number 1.10
 Page 13 of 22

 Revision Date 06/07/2016
 Print Date 06/09/2016

Product/ingredient	OSHA	IARC	NTP
name			
Quartz		1	Known to be a human carcinogen.
Naphthalene		2B	
Carbon black		2B	
Titanium dioxide		2B	
Antimony trioxide		2B	
Silica, cristobalite		1	

#### **Reproductive toxicity**

**Conclusion/Summary**: Mixture.Not fully tested.

**Teratogenicity** 

Conclusion/Summary : Mixture.Not fully tested.

#### Specific target organ toxicity (single exposure)

Not available.

#### **Specific target organ toxicity (repeated exposure)**

Not available.

## **Aspiration hazard**

Not available.

**Information on the likely routes of** :

Not available.

exposure

### **Potential acute health effects**

**Eve contact** : Causes eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

irritation watering redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:

irritation



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 14 of 22 Print Date 06/09/2016

redness

**Ingestion** : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate effects : Not available.
Potential delayed effects : Not available.

#### Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

### **Potential chronic health effects**

Conclusion/Summary : Mixture. Not fully tested.

General : Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

### Numerical measures of toxicity

#### **Acute toxicity estimates**

Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Naphthalene			
	Acute LC50 372 µg/l Fresh water	Fish - Fish	96 h
	Acute LC50 315 µg/l Fresh water	Fish - Fish	96 h
	Acute LC50 313 μg/l Fresh water	Fish - Fish	96 h



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 15 of 22 Print Date 06/09/2016

	Acute LC50 213 µg/l Fresh water	Fish - Fish	96 h
	Acute LC50 213 µg/1 Fresh water  Acute LC50 438 µg/l Fresh water	Fish - Fish	96 h
	Acute LC50 438 µg/l Flesh water  Acute LC50 2,160 µg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 1.96 mg/l Fresh water	Aquatic invertebrates.  Daphnia	48 h
	Acute EC50 2.550 Mg/l Fresh	Aquatic invertebrates.	48 h
	water	Water flea	
	Acute EC50 1,600 μg/l Fresh water	Aquatic invertebrates.  Daphnia	48 h
	Acute EC50 2,194 μg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute LC50 2,800 μg/l Marine water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 2.6 mg/l Marine water	Aquatic invertebrates. Crustaceans	48 h
	Acute EC50 5,960 μg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 3,930 μg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 2,350 μg/l Marine water	Aquatic invertebrates. Crustaceans	48 h
	Acute EC50 1.6 mg/l Fresh water	Aquatic invertebrates.  Daphnia	48 h
Carbon black			
	Acute EC50 37.563 mg/l Fresh water	Aquatic invertebrates.  Daphnia	48 h
	Acute LC50 61.547 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Titanium dioxide	water	Бирини	
Training Growing	Acute LC50 > 1,000,000 μg/l Marine water	Fish - Fish	96 h
	Acute LC50 > 1,000 mg/l Fresh water	Fish - Fish	96 h
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute LC50 3 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 3.6 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute LC50 11 mg/l Fresh water	Aquatic invertebrates.	48 h



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 16 of 22 Print Date 06/09/2016

		Crustaceans	
	Acute LC50 13.4 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Antimony trioxide			
	Acute LC50 > 530 mg/l Fresh water	Fish - Fish	96 h
	Acute LC50 > 1,000,000 μg/l Marine water	Fish - Fish	96 h
	Acute EC50 423,450 μg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 560 mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
	Acute EC50 730 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute EC50 760 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute EC50 740 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute NOEC 200 µg/l Fresh water	Aquatic plants - Algae	4 d

Conclusion/Summary : Not available.

## Persistence and degradability

Conclusion/Summary : Not available.

## Bioaccumulative potential

210WCC BINGUING POCCOLUMN				
Product/ingredient name	LogPow	BCF	Potential	
Naphthalene	3.4	36.50	low	
Titanium dioxide		352.00	low	
Bisphenol A -	2.64 - 3.78	31.00	low	
Epichlorohydrin polymer				
Diisodecyl phthalate (mixed	8.8	0.10	low	
isomers)				

## **Mobility in soil**

Soil/water partition coefficient

(KOC)

Not available.

Other adverse effects : No known significant effects or critical hazards.



# DGB0068 Alcoa Royal Brown St.

 Version Number 1.10
 Page 17 of 22

 Revision Date 06/07/2016
 Print Date 06/09/2016

# **Section 13. Disposal considerations**

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

# **Section 14. Transport information**

U.S. DOT Classification : Not regulated for transportation.

ICAO/IATA : Consult mode specific transport rules

IMO/IMDG (maritime) : Consult mode specific transport rules

# Section 15. Regulatory information

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None

of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Listed Diisodecyl

phthalate

Diisononyl phthalate

United States - TSCA 4(a) - ITC Priority list: Not listed
United States - TSCA 4(a) - Proposed test rules: Not listed
United States - TSCA 4(f) - Priority risk review: Not listed
United States - TSCA 5(a) 2 Final in its few test and the states in the state of the s

United States - TSCA 5(a)2 - Final significant new use rules: Not

listed

United States - TSCA 5(a)2 - Proposed significant new use rules:



## DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016

Page 18 of 22 Print Date 06/09/2016

Not listed

United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Listed Lead

United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined

United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed Naphthalene

**United States - TSCA 8(c) - Significant adverse reaction (SAR):** Not listed

United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Vinyl chloride monomer

Lead Arsenic

Diisodecyl phthalate

Naphthalene

**Miscellaneous Zinc Compounds** 

Antimony trioxide

United States - EPA Clean water act (CWA) section 311 -

Hazardous substances: Listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Toxic substances: Not listed

**United States - Department of commerce - Precursor chemical:** 

Not listed

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I

**Substances** 

Not listed

Listed

Clean Air Act Section 602 Class II

**Substances** 

Not listed

**DEA List I Chemicals (Precursor** 

Not listed

Chemicals)

**DEA List II Chemicals (Essential** 

Not listed

Chemicals)



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 19 of 22 Print Date 06/09/2016

## US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	RQ for component	
Naphthalene	91-20-3	100 lb(s) 45.4 kg	

## **SARA 311/312**

Classification

: Immediate (acute) health hazard Delayed (chronic) health hazard

## **Composition/information on ingredients**

Name	%	Classification
Quartz	0.1 - 0.3	СН
Naphthalene	0.1 - 0.3	АН, СН
Carbon black	0.3 - 1	СН
Antimony trioxide	1.5 - 3	АН, СН
Bisphenol A - Epichlorohydrin polymer	1.5 - 3	АН
Silica, cristobalite	3 - 5	СН
Diisodecyl phthalate (mixed isomers)	7.1 - 10	АН

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Naphthalene	91-20-3	0.1 - 0.3
	Antimony trioxide	1309-64-4	1.5 - 3
Supplier notification	Antimony trioxide	1309-64-4	1.5 - 3
	Naphthalene	91-20-3	0.1 - 0.3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.



# DGB0068 Alcoa Royal Brown St.

 Version Number 1.10
 Page 20 of 22

 Revision Date 06/07/2016
 Print Date 06/09/2016

**State regulations** 

Massachusetts : The following components are listed:

Bis (2-ethylhexyl) adipate

Silica, cristobalite Antimony trioxide

**New York** : The following components are listed:

Naphthalene Antimony trioxide

**New Jersey** : The following components are listed:

Quartz Naphthalene Carbon black Titanium dioxide Antimony trioxide Silica, cristobalite

Bis (2-ethylhexyl) adipate Ethene, chloro-, homopolymer

**Pennsylvania**: The following components are listed:

Quartz

Naphthalene

Carbon black

Titanium dioxide

Silica, amorphous, diatomaceous earth

Antimony trioxide

Silica, cristobalite

Bis (2-ethylhexyl) adipate

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**United States inventory (TSCA 8b)** : All components are listed or exempted.

Canada inventory : At least one component is not listed in DSL but all such components

are listed in NDSL.

**International regulations** 

International lists : Australia inventory (AICS): Not determined.

20/22



## DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 21 of 22 Print Date 06/09/2016

Taiwan inventory (CSNN): Not determined.

Malaysia Inventory (EHS Register): Not determined.

**EINECS:** Not determined.

Japan inventory: Not determined.

China inventory (IECSC): Not determined.

Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

**Chemical Weapons Convention** 

**List Schedule I Chemicals** 

**Chemical Weapons Convention** 

**List Schedule II Chemicals** 

**Chemical Weapons Convention** 

**List Schedule III Chemicals** 

Not listed

Not listed

: Not listed

## Section 16. Other information

#### **History**

Date of printing: 06/09/2016Date of issue/Date of revision: 06/07/2016Date of previous issue: 02/12/2016Version: 1.10

**Key to abbreviations**: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

 $LogPow = logarithm\ of\ the\ octanol/water\ partition\ coefficient$ 

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

UN = United Nations

**References** : Not available.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.



# DGB0068 Alcoa Royal Brown St.

Version Number 1.10 Revision Date 06/07/2016 Page 22 of 22 Print Date 06/09/2016