

# PVC KBD 004.000% GOLD #3

Page 1

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

### **SECTION 1. IDENTIFICATION**

Identification of the	Clariant Plastics & Coating USA LLC
company:	4000 Monroe Road
	Charlotte, NC, 28205
	Telephone No.: +1 704 331 7000
	Information of the substance/preparation: BU Masterbatches
	Product Stewardship, +1-704-331-7710
	e-mail: SDS.NORAM@clariant.com
	Emergency tel. number: 800-424-9300 (CHEMTREC)
Trade name:	PVC KBD 004.000% GOLD #3
Material number:	CV22754443
Chemical family:	Colourant preparation Carrier: PVC

Primary product use: Additive for plastic material processing

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

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

### **GHS** label elements

Not a hazardous substance or mixture.

### Other hazards

Hazards Not Otherwise Classified:

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Colourant preparation Carrier: PVC

### Components

Chemical name	CAS-No.	Concentration (% w/w)
C.I. Pigment Black 28	68186-91-4	0.1 - 1
Aluminium oxide	1344-28-1	0.1 - 1
Amorphous silicon dioxide	7631-86-9	0.1 - 1
C.I. Pigment Brown 24	68186-90-3	1 - 5
Di-n-octyltin-bis-(2-	15571-58-1	1 - 5
ethylhexylthioglycolate)		



# PVC KBD 004.000% GOLD #3

Page 2

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019
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C.I. Pigment White 6	13463-67-7	30 - 60
Polyvinyl chloride	9002-86-2	30 - 60
This material is considered has	zardous by the OSHA Haza	ard Communication Standard (29 CFR
1910.1200) and by the Canadi	an WHMIS 2015 Hazardou	s Products Regulations (SOR/2015-

17)., The hazardous ingredients of this product are encapsulated, therefore the material is not GHS classified for health and environmental hazards as exposure is not expected., Any concentration shown as a range is due to batch variation.

#### SECTION 4. FIRST AID MEASURES

If inhaled	:	Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.
In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. In case of burns apply cold water until pain subsides then seek medical advice. Burns must be treated by a physician. If molten polymer contact the skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn. Skin absorption of reground pellets is unlikely.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
If swallowed	:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/ attention.
Most important symptoms and effects, both acute and delayed	:	The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known.
Notes to physician	:	Treat symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet



# PVC KBD 004.000% GOLD #3

Page 3

ubstance key: 000000792554		Revision Date: 05/02/2019
ersion : 1 - 0 / CDN		Date of printing :05/02/2019
Specific hazards during firefighting	:	In case of fire hazardous decomposition products may be produced such as: Hydrogen chloride Carbon monoxide Carbon dioxide (CO2) Metal oxides Acrolein
Further information	:	Combustible material In the event of fire and/or explosion do not breathe fumes. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
ECTION 6. ACCIDENTAL RELEA	AS	E MEASURES
Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
Environmental precautions	:	Do not allow contact with soil, surface or ground water. Prevent product from entering drains.
Methods and materials for containment and cleaning up	:	Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Sweep up and shovel into suitable containers for disposal. Take up uncontaminated material and pass on for further processing.

After cleaning, flush away traces with water.

# SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Take measures to prevent the build up of electrostatic charge.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation/personal protection. For personal protection see section 8. Avoid contact with skin, eyes and clothing.



# PVC KBD 004.000% GOLD #3

Page 4

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019
	Use only with adequate ventilation. When handling hot melts use suitable protective clothing. Avoid dust formation. Keep away from sources of ignition. Lead off electrostatic charges.
Conditions for safe storage :	Keep container tightly closed in a cool, well-ventilated place. Protect from moisture. Keep away from direct sunlight.
Further information on : storage conditions	Store in a cool, dry, well-ventilated area. Keep container sealed when not in use. Keep in an area equipped with sprinklers. Minimize dust generation and accumulation.
Materials to avoid :	not required

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis
		o.p.co.c)	concentration	
C.I. Pigment Brown 24	68186-90-3	TWA	0.5 mg/m3 (antimony)	CA AB OEL
		TWAEV	0.5 mg/m3 (antimony)	CA QC OEL
		TWA	0.5 mg/m3 (antimony)	CA BC OEL
		TWA	0.5 mg/m3 (antimony)	ACGIH
C.I. Pigment Black 28	68186-91-4	TWA	1 mg/m3 (Copper)	NIOSH REL
C.I. Pigment White 6	13463-67-7	TWA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m3	CA BC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
Aluminium oxide	1344-28-1	TWA	10 mg/m3	CA AB OEL
		TWAEV (total dust)	10 mg/m3 (Aluminium)	CA QC OEL
		TWA (Respirable)	1 mg/m3 (Aluminium)	CA BC OEL
		TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH
Amorphous silicon dioxide	7631-86-9	TWA (Dust)	20 Million	OSHA Z-3



# PVC KBD 004.000% GOLD #3

Page 5

stance key: 000000792554	ł			ate: 05/02/2019
sion : 1 - 0 / CDN			Date of printi	ng :05/02/2019
			particles per cul foot (Silica)	bic
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
Polyvinyl chloride	9002-86-2	(Respirable)	1 mg/m3	CA BC OE
		TWAEV (total dust)	10 mg/m3	CA QC OE
		TWA (Respirable fraction)	1 mg/m3	ACGIH
Personal protective equipn	places w Use engi maintain	n. appropriate exhaust here dust can be ge neering controls suc airborne concentrati	nerated. h as local or gene	ral exhaust to
Respiratory protection	: Use NIO manufac generate Use resp	SH/MSHA approved turer's recommendat d. iratory protective eq ed temperatures (se	tions where dust o	r fume may be
Hand protection Remarks	Neopren	Nitrile rubber gloves. Impervious butyl rubber gloves PVC Neoprene gloves When handling hot material, use heat resistant gloves.		
Eye protection	: Safety gl	Safety glasses with side-shields		
Skin and body protection	to prever	Wear protective clothing, including long sleeves and gloves, to prevent skin contact. When handling hot melts use suitable protective clothing.		
Hygiene measures	: The usua	al Industrial Hygiene	precautions must	be taken

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	Granules
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- Colour : orange
- Odour : characteristic

# PVC KBD 004.000% GOLD #3

Substance key: 000000792554		Revision Date: 05/02/2019
Version : 1 - 0 / CDN		Date of printing :05/02/2019
Odour Threshold	:	Not applicable
рН	:	Not applicable
Melting point	:	> 70 °C
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Self-ignition	:	Not applicable
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	not available
Density	:	not tested.
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	This property is not applicable for mixtures.
Decomposition temperature	:	> 200 °C
Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	no data available no data available
Oxidizing properties	:	not available
Surface tension	:	Not relevant
Particle size	:	Product specific





# PVC KBD 004.000% GOLD #3

Page 7

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	Lithium
Conditions to avoid	:	To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Keep away from heat, sparks, open flames, and other sources of ignition. If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Incompatible materials	:	none Strong acids and oxidizing agents Strong acids and strong bases Incompatible with acids. Strong acids
Hazardous decomposition products	:	When handled and stored appropriately, no dangerous decomposition products are known The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g.

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route None known.	s of exposure
Acute toxicity	
Product:	
Acute inhalation toxicity	: Acute toxicity estimate: 11.93 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
<u>Components:</u>	
Aluminium oxide:	



# PVC KBD 004.000% GOLD #3

Page 8

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Substance key: 000000792554	Revision Date: 05/02/2019	
Version : 1 - 0 / CDN	Date of printing :05/02/2019	
Acute oral toxicity :	LD50 (Rat, male and female): > 10,000 mg/kg Method: OECD Test Guideline 401 GLP: No information available.	
Acute inhalation toxicity :	LC50 (Rat, male and female): > 2.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity	
Acute dermal toxicity :	Remarks: Not applicable	
Amorphous silicon dioxide:		
Acute oral toxicity :	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes Remarks: No significant adverse effects were reported	
Acute inhalation toxicity :	LC50 (Rat, male and female): > 2.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.	
Acute dermal toxicity :	LD50 (Rabbit): > 2,000 mg/kg Method: Other GLP: no	
C.I. Pigment Brown 24:		
•	LD50 (Rat, male and female): > 10,000 mg/kg Method: BASF test GLP: no	
Acute inhalation toxicity :	Remarks: Not applicable	
Acute dermal toxicity :	Remarks: Not applicable	
Di-n-octyltin-bis-(2-ethylhexylthioglycolate):		
Acute oral toxicity :	LD50 (Rat, male and female): 2,000 mg/kg Method: OECD Test Guideline 401 GLP: yes	
Acute inhalation toxicity :	Remarks: Not applicable	
Acute dermal toxicity :	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes	



# PVC KBD 004.000% GOLD #3

Page 9

bstance key: 00000079255	4 Revision Date: 05/02/2	201
rsion : 1 - 0 / CDN	Date of printing :05/02/2	201
C.I. Pigment White 6:		
Acute oral toxicity	: LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 GLP: no	
Acute inhalation toxicity	<ul> <li>LC50 (Rat, male and female): 3.4 - 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: no</li> </ul>	
	Assessment: The substance or mixture has no acute inhalation toxicity	
Acute dermal toxicity	: Assessment: The substance or mixture has no acute derma toxicity Remarks: not required	al
Polyvinyl chloride:		
Acute oral toxicity	: Remarks: Not relevant	
Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhalation toxicity	
Acute dermal toxicity	: Remarks: Not relevant	
Skin corrosion/irritation		
Product:		
Result: No skin irritation		
<u>Components:</u>		
Aluminium oxide:		
Species: Rabbit Exposure time: 24 h Method: OECD Test Guideli Result: No skin irritation GLP: No information availab		
Amorphous silicon dioxide	e:	
Species: Rabbit Exposure time: 4 h Method: OECD Test Guideli Result: No skin irritation GLP: yes		
C.I. Pigment Brown 24: Species: Rabbit		

Species: Rabbit Exposure time: 24 h

# PVC KBD 004.000% GOLD #3

# Substance key: 00000792554 Revision Date: 05/02/2019 Version : 1 - 0 / CDN Date of printing :05/02/2019

Method: Draize Test Result: No skin irritation GLP: no

#### C.I. Pigment White 6:

Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: No skin irritation GLP: no

### **Polyvinyl chloride:**

Remarks: This information is not available.

### Serious eye damage/eye irritation

Product:

Result: No eye irritation

#### Components:

Aluminium oxide:

Result: Mild eye irritation

### Amorphous silicon dioxide:

Species: Rabbit Result: No eye irritation Exposure time: 24 h Method: OECD Test Guideline 405 GLP: yes

### C.I. Pigment Brown 24:

Species: rabbit eye Result: slight irritation Method: FDA guideline GLP: no

#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Species: rabbit eye Result: non-irritant Exposure time: 96 h Method: OECD Test Guideline 405 GLP: yes

### C.I. Pigment White 6:

Species: rabbit eye Result: No eye irritation Method: OECD Test Guideline 405

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# PVC KBD 004.000% GOLD #3

Page 11

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

GLP: No information available.

#### Polyvinyl chloride:

Remarks: This information is not available.

#### Respiratory or skin sensitisation

#### Product:

Result: non-sensitizing

#### **Components:**

#### Aluminium oxide:

Test Type: Draize Test Exposure routes: Dermal Species: Guinea pig Method: Draize Test Result: Not a skin sensitizer. GLP: no

Test Type: Respiratory system Exposure routes: inhalation (dust/mist/fume) Species: Mouse Method: Other Result: Not a skin sensitizer. GLP: no

### Amorphous silicon dioxide:

Remarks: no data available

### C.I. Pigment Brown 24:

Remarks: Not applicable

### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Test Type: Guinea pig maximization test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: May cause sensitisation by skin contact. GLP: yes

### C.I. Pigment White 6:

Test Type: Local lymph node assay (LLNA) Exposure routes: Dermal Species: Mouse Method: OECD Test Guideline 429 Result: Not a skin sensitizer. GLP: No information available.



# PVC KBD 004.000% GOLD #3

Page 12

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

Test Type: Buehler Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline 406 Result: Not a skin sensitizer. GLP: yes

Test Type: Respiratory system Exposure routes: inhalation (dust/mist/fume) Species: Mouse Method: Other Result: Does not cause respiratory sensitisation. GLP: No information available.

### Polyvinyl chloride:

Exposure routes: Skin contact Result: not known

### Germ cell mutagenicity

#### **Components:**

Aluminium oxide:	
Genotoxicity in vitro	<ul> <li>Test Type: In vitro gene mutation study in mammalian cells Test system: mouse lymphoma cells Concentration: 6,1 - 780 μg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes Remarks: By analogy with a product of similar composition</li> </ul>
Genotoxicity in vivo	<ul> <li>Test Type: Chromosome Aberration Test Species: Rat (female)</li> <li>Strain: wistar</li> <li>Cell type: Bone marrow</li> <li>Application Route: oral (gavage)</li> <li>Exposure time: Single exposure</li> <li>Dose: 500 - 1000 - 2000 mg/kg</li> <li>Method: OECD Test Guideline 475</li> <li>Result: positive</li> <li>GLP: No information available.</li> </ul>
	Test Type: Micronucleus test Species: Rat (female) Strain: wistar Cell type: Bone marrow Application Route: oral (gavage) Exposure time: Single exposure Dose: 500 - 1000 - 2000 mg/kg Method: OECD Test Guideline 474 Result: positive GLP: No information available.



# PVC KBD 004.000% GOLD #3

bstance key: 000000792554	Revision Date: 05/02/201
rsion : 1 - 0 / CDN	Date of printing :05/02/201
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.
Amorphous silicon dioxide:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 667 - 10000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: In vitro gene mutation study in mammalian cells Test system: Chinese hamster ovary cells Concentration: 10 - 500 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Concentration: 38 - 1000 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes
Genotoxicity in vivo :	Test Type: Cytogenetic assay Species: Rat (male) Strain: Fischer F344 Application Route: Inhalation Exposure time: 13 w, 6 h/d, 5 d/wk Dose: ca. 50 mg/m3 Method: Other Result: negative GLP: No information available.
Germ cell mutagenicity - : Assessment	In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects
C.I. Pigment Brown 24:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 100 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes



# PVC KBD 004.000% GOLD #3

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019
	Test system: Escherichia coli Concentration: 2,5 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Concentration: 0,5 - 900 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative GLP: yes
	Test Type: In vitro gene mutation study in mammalian cells Test system: mouse lymphoma cells Concentration: 3,13 - 100 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
Germ cell mutagenicity - : Assessment	It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.
Di-n-octyltin-bis-(2-ethylhexyltl	nioglycolate):
Genotoxicity in vitro :	Test Type: In vitro gene mutation study in mammalian cells Test system: mouse lymphoma cells Concentration: 0,006 - 100 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 150 - 12150 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: no
Genotoxicity in vivo :	Test Type: Chromosome Aberration Test Species: Mouse (male and female) Cell type: Bone marrow cells Application Route: oral (gavage) Exposure time: 30 h Dose: 2250 - 4500 - 9000 mg/kg Method: OECD Test Guideline 474 Result: negative GLP: No information available. Test substance: other TS



# PVC KBD 004.000% GOLD #3

	Revision Date: 05/02/2019
/ersion : 1 - 0 / CDN	Date of printing :05/02/2019
	Test Type: Chromosome Aberration Test Species: Mouse (male and female) Strain: CD1 Cell type: Bone marrow cells Application Route: oral (gavage) Exposure time: 72 h Dose: 2250 - 4500 - 9000 mg/kg Method: OECD Test Guideline 474 Result: negative GLP: No information available. Test substance: other TS
Germ cell mutagenicity - : Assessment	It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.
C.I. Pigment White 6:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 333 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: Ames test Test system: Escherichia coli Concentration: 333 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Mouse (male and female) Strain: ICR Cell type: Erythrocytes Application Route: oral (gavage) Exposure time: single treatment Dose: 500 - 1000 - 2000 mg/kg Method: OECD Test Guideline 474 Result: negative GLP: yes
Germ cell mutagenicity - : Assessment	In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects
Polyvinyl chloride:	
Genotoxicity in vitro :	Remarks: Not applicable
Germ cell mutagenicity - : Assessment	No information available.



# PVC KBD 004.000% GOLD #3

Page 16

ubstance key: 000000792554	Revision Date: 05/02/2019
ersion : 1 - 0 / CDN	Date of printing :05/02/2019
Carcinogenicity	
Components:	
Aluminium oxide:	
Carcinogenicity - : Assessment	Carcinogenicity classification not possible from current data.
Amorphous silicon dioxide:	
Species: Rat, (male and female) Application Route: oral (feed) Exposure time: 103 w	

Exposure time: 103 w Dose: 1,25 - 2,5 - 5 % in diet Group: yes Frequency of Treatment: daily NOAEL: ca. 1,800 - 3,000 mg/kg bw/day Method: OECD Test Guideline 453 Result: negative GLP: No information available.

Carcinogenicity -	:	Not classifiable as a human carcinogen.
Assessment		

### C.I. Pigment Brown 24:

Carcinogenicity -	:	Not classifiable as a human carcinogen.
Assessment		

# Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Carcinogenicity -	:	No information available.
Assessment		

### C.I. Pigment White 6:

Carcinogenicity -	:	Not classifiable as a human carcinogen.
Assessment		

### Polyvinyl chloride:

Carcinogenicity -	:	No information available.
Assessment		

### **Reproductive toxicity**

### Components:

Aluminium oxide:

Effects on fertility	: Species: Rat, male and female Strain: Sprague-Dawley Application Route: Drinking water
	Dose: 57 - 189 - 567 mg/kg General Toxicity - Parent: NOAEL: ca. 567 mg/kg body weight



# PVC KBD 004.000% GOLD #3

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019
	General Toxicity F1: NOAEL: ca. 57 mg/kg body weight Method: Other GLP: yes Remarks: By analogy with a product of similar composition
Effects on foetal development	<ul> <li>Species: Rat Strain: wistar Application Route: oral (gavage) Dose: 126 - 251 - 503 mg/kg Frequency of Treatment: 2 daily General Toxicity Maternal: NOAEL: &gt; 100 mg/kg body weight Teratogenicity: NOAEL: 503 mg/kg body weight Method: OECD Test Guideline 414 GLP: No information available. Remarks: By analogy with a product of similar composition</li> </ul>
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments. No teratogenic effects to be expected.
Amorphous silicon dioxide:	
Effects on fertility	<ul> <li>Test Type: One generation study Species: Rat, male and female Strain: Sprague-Dawley Application Route: oral (feed) Dose: 497 (m), 509 (f) mg/kg General Toxicity - Parent: NOAEL: 497 mg/kg body weight General Toxicity F1: NOAEL: 497 mg/kg body weight Method: OECD Test Guideline 415 GLP: no</li> </ul>
Effects on foetal development	<ul> <li>Test Type: Pre-natal Species: Rat Strain: wistar</li> <li>Application Route: oral (gavage) Dose: 13,5 - 62,7 - 292 - 1350mg/kg General Toxicity Maternal: NOAEL: 1,350 mg/kg body weight Teratogenicity: NOAEL: 1,350 mg/kg body weight Method: OECD Test Guideline 414 GLP: no</li> </ul>
Reproductive toxicity - Assessment	<ul> <li>No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments. No teratogenic effects to be expected.</li> </ul>
<b>C.I. Pigment Brown 24:</b> Effects on fertility	<ul> <li>Test Type: One generation study Species: Rat, male and female Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 250 - 500 - 1000 mg/kg General Toxicity - Parent: NOAEL: &gt;= 1,000 mg/kg body</li> </ul>



# PVC KBD 004.000% GOLD #3

stance key: 0000007925	
sion : 1 - 0 / CDN	Date of printing :05/02/2
	weight General Toxicity F1: NOAEL: >= 1,000 mg/kg body weight Method: OECD Test Guideline 422 GLP: yes
Effects on foetal development	<ul> <li>Species: Rat Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 250 - 500 - 1000 mg/kg General Toxicity Maternal: NOAEL: &gt;= 1,000 mg/kg body weight Teratogenicity: NOAEL: &gt;= 1,000 mg/kg body weight Method: OECD Test Guideline 422 GLP: yes</li> </ul>
Reproductive toxicity - Assessment	: No reproductive toxicity to be expected. No teratogenic effects to be expected.
Di-n-octyltin-bis-(2-ethyl	hexylthioglycolate):
Effects on fertility	<ul> <li>Test Type: Two-generation study Species: Rat, male and female Strain: Sprague-Dawley Application Route: oral (feed) Dose: 20 - 60 -200 ppm General Toxicity - Parent: NOAEL: ca. 1.6 mg/kg body weig General Toxicity F1: NOAEL: 1.6 mg/kg body weight Method: OECD Test Guideline 416 GLP: yes Remarks: By analogy with a product of similar composition</li> </ul>
Effects on foetal development	<ul> <li>Species: Rabbit Strain: New Zealand white Application Route: oral (gavage) Dose: 4 - 20 - 80 mg/kg General Toxicity Maternal: NOAEL: 20 mg/kg body weight Teratogenicity: NOAEL: 80 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes</li> </ul>
Reproductive toxicity - Assessment	<ul> <li>Clear evidence of adverse effects on development, based of animal experiments.</li> <li>Classification as "teratogenic" is not justifiable.</li> </ul>
C.I. Pigment White 6:	
Effects on fertility	: Remarks: no data available
Effects on foetal development	<ul> <li>Test Type: Pre-natal Species: Rat, female Strain: wistar Application Route: oral (gavage) Dose: 100, 300, 1000 mg/kg bw Duration of Single Treatment: 14 d</li> </ul>



# PVC KBD 004.000% GOLD #3

Page 19

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019
	Frequency of Treatment: 1 daily General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight Developmental Toxicity: NOAEL: 1,000 mg/kg body weight Embryo-foetal toxicity: NOEL: 1,000 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes Remarks: No significant adverse effects were reported
Reproductive toxicity - : Assessment	No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments. Did not show teratogenic effects in animal experiments.
Polyvinyl chloride:	
Effects on fertility :	Remarks: This information is not available.
Effects on foetal : development	Remarks: This information is not available.
Reproductive toxicity - : Assessment	No information available. No information available.

#### STOT - single exposure

#### **Components:**

#### Aluminium oxide:

Target Organs: Lungs

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

### Amorphous silicon dioxide:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### C.I. Pigment Brown 24:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### C.I. Pigment White 6:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### Polyvinyl chloride:

Remarks: no data available



# PVC KBD 004.000% GOLD #3

Page 20

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

### STOT - repeated exposure

#### **Components:**

#### Aluminium oxide:

Target Organs: Lungs Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### Amorphous silicon dioxide:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### C.I. Pigment Brown 24:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Assessment: Causes damage to organs through prolonged or repeated exposure.

#### C.I. Pigment White 6:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Polyvinyl chloride:**

Remarks: no data available

#### **Repeated dose toxicity**

### **Components:**

#### Aluminium oxide:

Species: Rat, male and female NOAEL: 57 mg/kg Application Route: Drinking water Exposure time: 1 a Number of exposures: continuously Dose: 57 - 189 - 567 mg/kg Group: yes Method: OECD Test Guideline 426 GLP: yes Remarks: By analogy with a product of similar composition

Species: Rat LOAEL: 0.070 mg/l Application Route: Inhalation Exposure time: 6 m Number of exposures: 6 hr/day; 5 days a week Dose: 15-30-50-70-100 mg Al/m3 Method: OECD Test Guideline 413



# PVC KBD 004.000% GOLD #3

Page 21

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

GLP: No information available.

Application Route: Skin contact Remarks: The study is not necessary from a scientific perspective.

#### Amorphous silicon dioxide:

Species: Rat, male and female NOAEL: 4000 - 4500 mg/kg bw/day Application Route: oral (feed) Exposure time: 13 w Number of exposures: continuously Dose: 0,5 - 2 - 6,7 % SI in diet Group: yes Method: OECD Test Guideline 408 GLP: yes

Species: Rat, male and female NOAEL: 1,3 mg/m<sup>3</sup> LOAEL: 0.0059 mg/l Application Route: Inhalation Exposure time: 13 w Number of exposures: 6 hr/day; 5 days a week Dose: 1,3 - 5,9 - 31 mg/m3 Group: yes Method: OECD Test Guideline 413 GLP: yes

Application Route: Skin contact Remarks: This information is not available.

#### C.I. Pigment Brown 24:

Species: Rat, male and female NOAEL: 500 mg/kg Application Route: oral (feed) Exposure time: 90 d Number of exposures: daily Dose: 0,5 - 5 - 50 - 500 mg/kg Group: yes Method: OECD Test Guideline 408 GLP: No information available.

Application Route: Inhalation Remarks: not tested.

Application Route: Skin contact Remarks: not tested.

#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Species: Rat, male and female NOAEL: 0.5 mg/kg Application Route: oral (feed)



# PVC KBD 004.000% GOLD #3

Page 22

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

Exposure time: 90 d Number of exposures: daily Dose: 10-25-50-100-250-500-1000 ppm Group: yes Method: OECD Test Guideline 408 GLP: no

### C.I. Pigment White 6:

Species: Rat, male NOEL: > 24000 mg/kg bw/day Application Route: oral (gavage) Exposure time: 29 d Number of exposures: daily Dose: 24000 mg/kg Group: yes Method: OECD Test Guideline 407 GLP: No information available.

Species: Rat, male and female NOAEL: 0.01 mg/l Application Route: Inhalation Exposure time: 2 a Number of exposures: 6 hours/day, 5 days/week Dose: 0,0106 - 0,0507 - 0,250 mg/l Group: yes Method: Repeated Dose Toxicity (chronic Toxicity) GLP: no

### Polyvinyl chloride:

Remarks: This information is not available.

#### Aspiration toxicity

### Components:

# Aluminium oxide:

No aspiration toxicity classification

# Amorphous silicon dioxide:

No aspiration toxicity classification

### C.I. Pigment Brown 24:

No aspiration toxicity classification

# Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

No aspiration toxicity classification

# C.I. Pigment White 6:

No aspiration toxicity classification



# PVC KBD 004.000% GOLD #3

Page 23

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

### Polyvinyl chloride:

No aspiration toxicity classification

### Experience with human exposure

### Product:

General Information

: The possible symptoms known are those derived from the labelling (see section 2).

### **Further information**

### **Components:**

### C.I. Pigment White 6:

Remarks: Lung damage possible.

# **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

<u>Product:</u> Toxicity to fish	:	Remarks: no data available
Components:		
Aluminium oxide:		
Toxicity to fish	:	NOEC (Salmo trutta (brown trout)): > 0.072 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	NOEC (Daphnia magna (Water flea)): > 0.071 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): >= 0.052 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes



# PVC KBD 004.000% GOLD #3

Substance key: 000000792554		Revision Date: 05/02/2019
Version : 1 - 0 / CDN		Date of printing :05/02/2019
		EC50 (Pseudokirchneriella subcapitata (green algae)): 1.05 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to fish (Chronic toxicity)	:	NOEC (Pimephales promelas (fathead minnow)): 56.48 mg/l Exposure time: 7 d Test Type: semi-static test Analytical monitoring: yes Method: Other GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.076 mg/l End point: Reproduction rate Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to microorganisms	:	Remarks: Not applicable
Toxicity to soil dwelling organisms	:	Remarks: Not applicable
Plant toxicity	:	Remarks: Not applicable
Sediment toxicity	:	Remarks: Not applicable
Toxicity to terrestrial organisms	:	Remarks: Not applicable
Ecotoxicology Assessment		
Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
<b>Amorphous silicon dioxide:</b> Toxicity to fish	:	LL0 (Brachydanio rerio (zebrafish)): 10,000 mg/l End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: yes



# PVC KBD 004.000% GOLD #3

bstance key: 000000792554		Revision Date: 05/02/2019
rsion : 1 - 0 / CDN		Date of printing :05/02/2019
		Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 1,000 mg/l End point: Immobilization Exposure time: 24 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic plants	:	EL50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic toxicity)	:	NOEC: 86.03 mg/l Exposure time: 30 d Method: Other GLP: no Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 34.223 mg/l Exposure time: 30 d Method: Other GLP: no Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Sediment toxicity	:	LC50: 148.41 mg/l Duration: 14 d Method: Other GLP: no Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
<b>C.I. Pigment Brown 24:</b> Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l Exposure time: 96 h



# PVC KBD 004.000% GOLD #3

Substance key: 000000792554		Revision Date: 05/02/2019
Version : 1 - 0 / CDN		Date of printing :05/02/2019
		Test Type: static test Analytical monitoring: no Method: DIN 38412 T.15 GLP: no Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic toxicity)	:	Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not required
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 10,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 0.5 h Test Type: aquatic Analytical monitoring: no Method: DIN 38412 T.27 GLP: no Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to soil dwelling organisms	:	Remarks: Not applicable
Plant toxicity	:	Remarks: Not applicable
Sediment toxicity	:	Remarks: Not applicable
Toxicity to terrestrial organisms	:	Remarks: Not applicable



# PVC KBD 004.000% GOLD #3

Ibstance key: 000000792554		Revision Date: 05/02/2019
ersion : 1 - 0 / CDN		Date of printing :05/02/2019
Di-n-octyltin-bis-(2-ethylhex	ylthi	oglycolate):
Toxicity to fish		LC50 (Brachydanio rerio (zebrafish)): > 24 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): 0.17 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants		EC50 (Desmodesmus subspicatus (green algae)): 0.17 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: Directive 87/302/EEC, part C, p. 89 GLP: yes
		NOEC (Desmodesmus subspicatus (green algae)): 0.04 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		NOEC (Daphnia magna (Water flea)): 0.286 mg/l Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes
M-Factor (Chronic aquatic toxicity)	:	1
Toxicity to microorganisms		EC50 (activated sludge): > 100 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Analytical monitoring: no Method: Directive 87/302/EEC, part C, p. 118



# PVC KBD 004.000% GOLD #3

	4 Revision Date: 05/02/201
rsion : 1 - 0 / CDN	Date of printing :05/02/201
	GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to soil dwelling organisms	: Remarks: Not applicable
Plant toxicity	: Remarks: Not applicable
Sediment toxicity	: Remarks: Not applicable
Toxicity to terrestrial organisms	: Remarks: Not applicable
C.I. Pigment White 6:	
Toxicity to fish	<ul> <li>LC50 (Pimephales promelas (fathead minnow)): &gt; 1,000 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: EPA GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.</li> </ul>
	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: No information available. Remarks: The details of the toxic effect relate to the nominal concentration.
	LC50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: no data available Method: OECD Test Guideline 203 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and oth aquatic invertebrates	<ul> <li>r : LC50 (Daphnia magna (Water flea)): &gt; 100 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no data available Method: OECD Test Guideline 202 GLP: no data available Remarks: The details of the toxic effect relate to the nominal concentration.</li> </ul>



# PVC KBD 004.000% GOLD #3

bstance key: 000000792554	Revision Date: 05/02/201
rsion : 1 - 0 / CDN	Date of printing :05/02/201
	Exposure time: 48 h Analytical monitoring: no data available Method: ISO 14669 and PARCOM method GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (microalgae)): 61 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: EPA GLP: No information available. Remarks: The details of the toxic effect relate to the nominal concentration.
	EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/ End point: Growth rate Exposure time: 72 h Analytical monitoring: no data available Method: ISO 10253 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic toxicity)	<ul> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): 7.31 mg/l</li> <li>Exposure time: 28 d</li> <li>Test Type: static test</li> <li>Analytical monitoring: yes</li> <li>Method: Other</li> <li>GLP: No information available.</li> <li>Remarks: By analogy with a product of similar composition</li> </ul>
Toxicity to microorganisms :	<ul> <li>EC50 (activated sludge of a predominantly domestic sewage)</li> <li>&gt; 1,000 mg/l</li> <li>End point: Bacteria toxicity (respiration inhibition)</li> <li>Exposure time: 3 h</li> <li>Test Type: aquatic</li> <li>Method: OECD Test Guideline 209</li> <li>GLP: yes</li> <li>Remarks: The details of the toxic effect relate to the nominal concentration.</li> </ul>
	NOEC (activated sludge of a predominantly domestic sewage): >= 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Method: OECD Test Guideline 209 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.



# PVC KBD 004.000% GOLD #3

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019
Toxicity to soil dwelling : organisms	Test Type: artificial soil NOEC (Folsomia candida): 0,1 ->= 10 % Exposure time: 28 d End point: mortality Method: ISO 11267 GLP: no Remarks: By analogy with a product of similar composition This product does not have any known adverse effect on the soil organisms tested.
Plant toxicity :	NOEC: >= 10 % Exposure time: 20 h End point: Growth Species: Lactuca sativa (lettuce) Analytical monitoring: yes Method: Other GLP: no Remarks: By analogy with a product of similar composition No effect on the growth was observed.
Sediment toxicity :	<ul> <li>NOEC (Hyalella azteca (Scud)): &gt;= 100000 % Analytical monitoring: no Sediment: artificial soil Exposure duration: 28 d Nominal / Measured: nominal Basis for effect: mortality Method: Other GLP: no Remarks: By analogy with a product of similar composition</li> <li>NOEC: &gt;= 14989 mg/kg dry weight (d.w.) Analytical monitoring: no data available Sediment: Natural sediment Exposure duration: 10 d Nominal / Measured: nominal</li> </ul>
	Basis for effect: mortality Method: Other GLP: yes
Polyvinyl chloride:	
Toxicity to fish :	no toxicity, except ingestion Remarks: Not applicable
Toxicity to daphnia and other : aquatic invertebrates	Remarks: Not applicable
Toxicity to algae/aquatic : plants	Remarks: Not applicable
Toxicity to fish (Chronic : toxicity)	no toxicity, except ingestion Remarks: Not applicable



# PVC KBD 004.000% GOLD #3

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019
Toxicity to daphnia and other : aquatic invertebrates (Chronic toxicity)	Remarks: Not applicable
Toxicity to microorganisms :	Remarks: Not applicable
Toxicity to soil dwelling : organisms	Remarks: Not applicable
Plant toxicity :	Remarks: Not applicable
Sediment toxicity :	Remarks: Not applicable
Toxicity to terrestrial : organisms	no toxicity, except ingestion Remarks: Not applicable
Persistence and degradability	
Components:	
Aluminium oxide:	
Biodegradability :	Remarks: Not applicable
Amorphous silicon dioxide:	
Biodegradability :	Remarks: Not applicable
C.I. Pigment Brown 24:	
Biodegradability :	Remarks: Not applicable for inorganic compound.
Physico-chemical : removability	Remarks: Inorganic product, cannot be eliminated from the water by biological purification processes.
Di-n-octyltin-bis-(2-ethylhexylt	hioglycolate):
Biodegradability :	aerobic Inoculum: activated sludge Concentration: 50 mg/l Biochemical Oxygen Demand (BOD) Result: Not readily biodegradable. Biodegradation: 30 - 40 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes
C.I. Pigment White 6:	
Biodegradability :	Remarks: Not applicable for inorganic compound.
Polyvinyl chloride:	
Biodegradability :	Result: Not readily biodegradable. Remarks: The polymer is too large to be bioavailable.

# PVC KBD 004.000% GOLD #3

Substance key: 000000792554 Version : 1 - 0 / CDN	Revision Date: 05/02/2019 Date of printing :05/02/2019
	Not applicable due to insolubility in water. This product does not come into contact with the effluent when it is used for its purpose, otherwise it can be removed by filtration operations.
Bioaccumulative potential	
Product:	
Bioaccumulation :	Remarks: not tested.
Components:	
Aluminium oxide:	
Bioaccumulation :	Remarks: Not applicable

: Remarks: Not relevant for inorganic substances

### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

C.I. Pigment Brown 24:

Bioaccumulation

DI-n-octyltin-bis-(2-ethylnexylthioglycolate):		
Bioaccumulation	:	Species: Oncorhynchus mykiss (rainbow trout) Bioconcentration factor (BCF): 99 - 1,294 Exposure time: 30 d Concentration: DOT: 0,25 - 2,5 µg/l Method: OECD Guide-line 305 B GLP: yes
C.I. Pigment White 6:		
Bioaccumulation	:	Species: Oncorhynchus mykiss (rainbow trout) Bioconcentration factor (BCF): 20 - 200 Exposure time: 14 d Concentration: 0.1 - 1 mg/l Method: Other GLP: No information available. Remarks: Does not accumulate in organisms.
Partition coefficient: n- octanol/water	:	Remarks: inorganic
Polyvinyl chloride:		
Bioaccumulation	:	Remarks: Not applicable
Mobility in soil		
Product:		
Distribution among environmental compartments	:	Remarks: not tested.





# PVC KBD 004.000% GOLD #3

stance key: 000000792554		Revision Date: 05/02/201
sion : 1 - 0 / CDN		Date of printing :05/02/207
Components:		
Aluminium oxide:		
Distribution among	:	Remarks: Not applicable
environmental compartments		
C.I. Pigment Brown 24:		
Distribution among	:	Remarks: Not applicable
environmental compartments		
Di-n-octyltin-bis-(2-ethylhex	ylth	nioglycolate):
Distribution among	:	Remarks: Not applicable
environmental compartments		
C.I. Pigment White 6:		
Mobility	:	Remarks: Adsorption to solid soil phase is possible.
Distribution among	:	Adsorption/Soil
environmental compartments		Medium: water - soil
		log Koc: 4.61 Method: Other
Polyvinyl chloride:		
Distribution among	:	Remarks: The product is insoluble and sinks in water.
environmental compartments		
Other adverse effects		
Product:		
Results of PBT and vPvB	:	Remarks: No information is available as no chemical safety
assessment		report (CSR) is required.
Additional ecological	:	Do not allow to enter ground water, waterways or waste wate
information		
Components:		
Aluminium oxide:		
Environmental fate and	:	not available
pathways		
Results of PBT and vPvB	:	Remarks: Not applicable
assessment		
Additional ecological	:	Do not allow to enter ground water, waterways or waste wate
information	-	
Amorphous silicon dioxide:		
Environmental fate and	:	not available
	•	

# PVC KBD 004.000% GOLD #3



stance key: 000000792554	4	Revision Date: 05/02/20
sion : 1 - 0 / CDN		Date of printing :05/02/20
pathways		
Results of PBT and vPvB assessment	:	The substance is not identified as a PBT or as a vPvB substance.
Additional ecological information	:	Do not allow to enter ground water, waterways or waste wate
C.I. Pigment Brown 24:		
Environmental fate and pathways	:	not available
Results of PBT and vPvB assessment	:	The substance is inorganic, thus a PBT and vPvB criteria assessment is not applicable according to Annex XIII of Regulation (EC) 1907/2006.
Additional ecological information	:	Do not allow to enter ground water, waterways or waste wate
Di-n-octyltin-bis-(2-ethylhe	xyltl	nioglycolate):
Environmental fate and pathways	:	not available
Results of PBT and vPvB assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
Additional ecological information	:	Do not allow to enter ground water, waterways or waste wate
C.I. Pigment White 6:		
Environmental fate and pathways	:	not available
Results of PBT and vPvB assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
Additional ecological information	:	Do not allow to enter ground water, waterways or waste wate
Polyvinyl chloride:		
Environmental fate and pathways	:	no data available
Results of PBT and vPvB assessment	:	Remarks: Not applicable
Additional ecological information	:	Has not been tested due to insolubility in water.



# PVC KBD 004.000% GOLD #3

Page 35

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

### SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Waste from residues	:	Dispose of this product in accordance with all applicable local, state and federal regulations.
Contaminated packaging	:	Regulations concerning reuse or disposal of used packaging materials must be observed.

### **SECTION 14. TRANSPORT INFORMATION**

#### **SECTION 15. REGULATORY INFORMATION**

NPRI Components	:	Chromium (III) compound Antimony compounds Copper Compound
The components of this product are reported in the following inventories:		
DSL	:	All components of this product are on the Canadian DSL

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV		Time-weighted average exposure value
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-3 / TWA	:	8-hour time weighted average



# PVC KBD 004.000% GOLD #3

Page 36

Substance key: 000000792554	Revision Date: 05/02/2019
Version : 1 - 0 / CDN	Date of printing :05/02/2019

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant: CPR - Controlled Products Regulations: DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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 - International 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; n.o.s. - Not Otherwise Specified; Nch -Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

**Revision Date** 

05/02/2019

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# PVC KBD 004.000% GOLD #3

Page 37

Substance key: 000000792554	Revision Date: 05/02/2019
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