### **SAFETY DATA SHEETS**

## This SDS packet was issued with item:

074302725

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

074302709 074302717 074302733 074303400 074303418 074303426 074303434 074304069 074304093 074304127 074304150

### Material Safety Data Sheet

in accordance with Community Regulation 2006/1907/EC (R.E.A.Ch.)

Revision Date: 28<sup>th</sup> May 2009

### **SECTION 1**

### **Product & Company identification**

### 1.1 Product name

PERMLASTIC BASE (Regular, Light & Heavy Bodies)

### 1.2 <u>Uses/Application</u>:

Dental impression material.

### 1.3 Company (Name, address and info phone number)

### KERR ITALIA s.r.l.

Via Passanti, 332 84018 Scafati (SA) - Italy 00-800-41-050-505

### 1.4 Emergency phone (according to communitarian directive 99/45/EC, article 17)

+39.081.8508.325 (08.00-17.00, European time, GMT+1)

E-mail address: safety@kerrhawe.com

### **SECTION 2**

### Hazard identification

2.1 Hazard classification (according to communitarian directives 67/548/EEC & 99/45/EC)

Toxic for Reproduction (Cat. 1-2); Toxic to aquatic organisms.

### 2.2 Other hazard

None.

### **SECTION 3**

### **Composition/Information on Ingredients**

(according to communitarian directives 67/548/EEC, 99/45/EC & 2001/58/EC)

### 3.1 Hazardous ingredients

HAZARDOUS	%	HAZARD	RISK	CAS N.	EINECS N.
INGREDIENTS		SYMBOLS	<b>PHRASES</b>		
Polysulfide polymer	60-75	None	52-53	68611-50-7	Polymer
Butyl Benzyl Phthalate (BBP)	5-10	T; N	61-62-50/53	85-68-7	201-622-7
Octamethylcyclotetrasiloxane	1	Xn	62-53	556-67-2	209-136-7

### 3.2 Other non-hazardous ingredients

None.

### **SECTION 4**

#### First aid measures

- 4.1 Treatment for eye contact: Flush with large amounts of water.
- 4.2 Treatment for skin contact: Normal hygienic practices.
- 4.3 Treatment for inhalation (breathing): None particular.
- 4.4 Treatment for ingestion (swallowing): Induce vomiting. Consult a physician.

### **SECTION 5**

### **Fire-fighting Measures**

- 5.1 Suitable extinguishing media: Not applicable.
- 5.2 Forbidden extinguishing media: Not determined.
- 5.3 Special fire fighting measures: None.
- 5.4 Unusual fire and explosion hazards: Unknown.
- 5.5 Special protection equipment: Sealed overall.

### **SECTION 6**

### **Accidental Release Measures**

- 6.1 Personal Precautions: Follow recommended precautions listed in other sections.
- 6.2 Environmental Precautions: Material should not be allowed to drain into sewers.
- <u>6.3 Reclaiming Methods:</u> Absorb spill with paper towels and transfer into suitable containers.

### **SECTION 7**

Handling and Storage (according to article 5 of communitarian directive 98/24/EC)

- 7.1 Handling Precautions: Excessive heat may cause the aging of the product.
- 7.2 Precautions in case of Fire and Explosion: Extinguish all ignition sources.
- 7.3 Storage Conditions: Store at ambient temperature in a dry place
- 7.4 Suggested container(s): Original sealed containers provided by manufacturer.
- 7.5 Indication for Combined Storage: Avoid powerful reducing agents.
- 7.6 Environmental precautions: Do not allow product to reach sewers and rivers.
- <u>7.7 Other Precautions</u>: Keep out of the reach of children. Do not ingest. Avoid contamination of food. Use according to directions.

SECTION 8 Exposure controls/personal	protection		
8.1 Exposure Limits:	For BBP: TWA/TLV: 3 mg/m³ (Germany, Austria, Denmark & Sweden);		
	STEL: 5 mg/m <sup>3</sup> (Austria & Sweden); 15 mg/m <sup>3</sup> (Great Britain)		
8.2 Exposure control measur	r <u>es</u>		
8.2.1 Precautionary Med (according to commun	isures: itarian directives 89/686/EEC & article 4 of 98/24/EC)		
Local Exhaust Ventilation: Good general ventilation should be sufficient to keep vapour concentration under listed limits.  Ventilation: Special Ventilation: None.  Mechanical (General) Ventilation: Should be sufficient.  Other Ventilation: None.			
Respiratory Protection:	When vapour concentration exceeds exposure limits, use self-contained breathing apparatus.		
Hands Protection:	Impervious rubber or nitrile gloves.		
Eyes Protection:	Safety glasses.		
Skin Protection:	Handle in accordance with good personal hygiene and safety practices.		
Other Protective Equipments	It would be better use a lab coat.		
Measures listed in this parag	raph are to be considered as indications and NOT prescriptions (89/656/EEC)		
8.2.2 Environment exposure control measures  Not Applicable.			

SECTION 9	1			
Physical and Chemical Properties				
9.1 General information				
Appearance: White paste Odour: Sulphur odour				
9.2 Infromation related to health, safety and envi	ronment			
<u>pH</u> : Not determined	Relative density: Not available			
Boiling point: Not applicable (N/A)	Specific gravity: > 1 g/ml			
Flash point: N/A	Solubility: Insoluble in water			
<u>Flammability</u> : Not flammable.	Partition coefficient n-octanol/water: N/D			
Lower Explosivity Limit (L.E.L.): N/A	<u>Viscosity</u> : Similar to water			
Upper Explosivity Limit (U.E.L.): N/A	Vapour density (air = 1): $N/A$			
Oxidizing properties: None	Evaporation rate (n-butane = 1): N/A			
Vapour pressure: N/A	Melting point: N/A			
9.3 Other information (according to communitarian directives 94/9/EC):				
Miscibility: N/A.	Conducibility: N/A			
Solubility in Lipids: N/A	Gases Group: N/A			

### **SECTION 10**

### **Stability and Reactivity**

Stability: Stable.

<u>10.1 Conditions to avoid</u>: Excessive heat may cause the aging of the product.

10.2 Materials to avoid (incompatibility): Avoid powerful reducing agents.

10.3 Hazardous decomposition products: Sulphur gases may form.

Other precautions:

<u>Hazardous Polymerization Products</u>: Will not occur

Safety significance in case of change in physical appearance: None known

Stabilizers: No stabilizers are present in this product.

### **SECTION 11**

### **Toxicological Information**

CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

Possible.

\_\_\_\_\_\_

Effects and hazards of eye contact: May cause irritation.

Effects and hazards of skin contact: May cause mild irritation.

Effects and hazards of Inhalation (Breathing): May cause low or mild irritation.

Effects and hazards of Ingestion (Swallowing): Although ingestion is an unlike event, ingestion of uncured

material may pose health hazard for reproduction (see

Section 2.1).

Effects for prolonged Exposure: Same health hazards listed in Effects of ingestion (current section).

<u>Toxic-kinetic effects</u>: Unknown.

Effects on metabolism: Unknown.

\_\_\_\_\_

### <u>Toxicological data for ingredients:</u>

00 mg/Kg
0000 mg/Kg
7 mg/l
)

### **SECTION 12**

### **Ecological Information**

This product has not known ecological hazardous effects.

12.1 Eco-toxicity: Not available

12.2 Mobility: Not available

12.3 Persistence and degradability: Not available

12.4 Bioaccumulative potential: Data available for BBP only: 12 BCF, based on parent compound analysis;

Log Pow: 4.58.

12.5 Results of PBT (Persistent Bio-Toxicity) assessment: Not available

12.6 Other adverse effects: Not available

\_\_\_\_\_\_

### Aquatic toxicity data for single ingredient:

Polysulphide Polymer	LC <sub>50</sub> (pimephales promelas):	320 mg/l (96 hours)		
	LC <sub>50</sub> (cyprinodont variegatus):	> 1000 mg/l (96 hours)		
	EC <sub>50</sub> (daphnia magna):	32 mg/l (48 hours)		
	LC <sub>50</sub> (mysidopsis bahia):	59 mg/l (96 hours)		
	EC <sub>50</sub> (alga, selenastrum capricornutum): 17 mg/l (72 hours)			
BBP	BP LC <sub>50</sub> (fishes, trout):			
	LC <sub>50</sub> (fathead minnow):	1,5 mg/l (96 hours)		
	LC <sub>50</sub> (daphnia, water flea): 1,7 mg/l (48 hours)			
	LC <sub>50</sub> (alga):	1,5 mg/l (72 hours)		

#### **SECTION 13**

### **Disposal considerations**

Dispose of in accordance of local regulations.

### **SECTION 14**

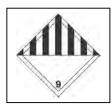
### **Transport information**

### 14.1 Sea transportation (IMDG)

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Stowage/segregation: Category A; Limited Quantity: 5 Kg

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.



### 14.2 Air transportation (ICAO/IATA)

UN number: 3077 Class: 9 Packing group: III Labels: 9

Maximum quantities: No limits (for both Passenger Aircraft and Cargo Aircraft only)

Limited Quantity: 30 Kg G Proper shipping name: Environmentally

hazardous substance, solid, n.o.s.



### 14.3 Transportation by Road/Railway (RID/ADR)

<u>UN number</u>: 3077 <u>Class</u>: 9 <u>Packing group</u>: III <u>Labels</u>: 9

Limited Quantity: LQ27 (6 Kg/30 Kg for combined, 6 Kg/20 Kg for bandaged trays).

External package type: carton (4G) both for simple and combined packages; Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

SECTION 15 (Classification according to communitarian directives 67/548/EEC & 99/45/EC)

### **Regulatory information**

Hazard labelling not required.

This product is an exempted medical device (directive 1999/45/EC, article 1, paragraph 5g).

### **SECTION 16**

### Other information

### 16.1 Risk phrases of all ingredients

- May cause harm to the unborn child.
- Possible risk of impaired fertility.
- 50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
- Harmful to aquatic organisms
- May cause long-term adverse effects in the aquatic environment.

### 16.1.1 Safety phrases of all ingredients

- 23 Do not breathe vapour
- This material and its container must be disposed of as hazardous waste
- Avoid release to the environment. Refer to special instructions / safety data sheets.

### 16.2 Sources of key data used to compile the Safety Data Sheet:

European Chemicals Bureau (ECB – www.ecb.jrc.it)

European chemical Substances Information System (ESIS - www.ecb.jrc.it/esis)

A.C.G.I.H. (www.acgih.org)

N.I.OS.H. (www.cdc.gov/niosh/)

O.S.H.A. (www.osha.gov/)

U.E. (www.europa.eu/index it.htm)

I.A.R.C. (www.iarc.fr/)

N.T.P. (www.**ntp**.niehs.nih.gov)

### **European Community Directives:**

67/548/EEC:	Classification, packaging and labelling of dangerous substances.
99/45/EC:	Directive concerning the approximation of the laws, regulations and administrative
	provisions of the Member States relating to the classification, packaging and labelling of
	dangerous preparations.
2001/58/EC:	Second amendment of directive 91/155/EEC for the definition of a detailed arrangement
	of specific information relating to dangerous preparations (art. 14 of 99/45/EC) and
	substances (art. 27 of 67/548/EEC).
89/656/EEC:	Directive on the minimum health and safety requirements for the use by workers of
	personal protective equipment at the workplace (third individual directive within the
	meaning of Article 16 (1) of Directive 89/391/EEC).
89/686/EEC:	Approximation of the laws of the Member States relating to personal protective
	equipment.
94/9/EC:	Approximation of the laws of the Member States concerning equipment and protective
	systems intended for use in potentially explosive atmospheres
98/24/EC:	Protection of the health and safety of workers from the risks related to chemical agents at
	work.
1	•

Document modification history:

15<sup>th</sup> September 2008 First version in compliance of Community Regulation 2006/1907/EC

(R.E.A.Ch.)

28<sup>th</sup> May 2009 <u>Second revision</u>: Change in transport hazard classification (Section 14).

### **CAUTION: PRODUCT FOR PROFESSIONAL USE**

The information on this Safety Sheet is based on presently available data and to our best knowledge for the correct handling of the product under normal conditions. Any use of this product in any way not indicated on this Sheet or the use of this product together with any other process/procedure will be exclusively under the user's responsibility. This document does not constitute explicit or implicit warranty of product quality or fitness for a particular purpose.



# SAFETY DATA SHEET

### Permlastic Base

### **Section 1. Identification**

GHS product identifier : Permlastic Base

Other means of identification

: Light-Bodied Permlastic; Regular Permlastic; Heavy-Bodied Permlastic

Product type : Paste.

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

**Product use** : Dental Products: Denture impression material.

**Area of application** : Professional applications.

**Manufacturer** : Kerr Corporation

1717 West Collins Avenue Orange, CA 92867-5422

Telephone no.: 1-800-KERR-123

e-mail address of person responsible for this SDS

: edwin.varela@kavokerrgroup.com

Emergency telephone number (with hours of

operation)

: CHEMTREC® (24 hours) U.S.: 1-800-424-9300 International: +1-703-527-3887

# Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: SKIN IRRITATION - Category 2

TOXIC TO REPRODUCTION (Unborn child) - Category 1B

TOXIC TO REPRODUCTION (Fertility) - Category 2

Health effects are based on the uncured material.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 79.6%

**GHS label elements** 

Hazard pictograms :





Signal word : Danger

**Hazard statements** : Causes skin irritation.

May damage the unborn child. Suspected of damaging fertility.

**Precautionary statements** 

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 1/13

### Section 2. Hazards identification

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

been read and understood. Use personal protective equipment as required. Wear

protective gloves. Wash hands thoroughly after handling.

Response : IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of

soap and water. Take off contaminated clothing. Wash contaminated clothing before

reuse. If skin irritation occurs: Get medical attention.

Storage : Store locked up.

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

international regulations.

Hazards not otherwise

classified

: None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification

: Light-Bodied Permlastic; Regular Permlastic; Heavy-Bodied Permlastic

### **CAS** number/other identifiers

CAS number : Not applicable.

Product code : Not available.

Ingredient name	Other names	%	CAS number
BBP	benzyl butyl phthalate	5-10	85-68-7
sulfur	sulfur	1-5	7704-34-9
octamethylcyclotetrasiloxane	octamethylcyclotetrasiloxane	0.1-1	556-67-2

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 and hence require reporting in this section.

## Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact : No special measures are required. In case of contact with eyes, rinse immediately with

plenty of water. Get medical attention if symptoms occur.

Inhalation : No special measures required. If inhaled, remove to fresh air. Get medical attention if

symptoms occur.

**Skin contact**: No special protection is required. In case of contact, immediately flush skin with plenty of

water. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. 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. Get medical attention if adverse health effects persist or

are severe.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation.

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 2/13

### Section 4. First aid measures

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

Over-exposure signs/symptoms

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

pain or irritation watering

redness

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

### 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 : In case of major fire and large quantities: No action shall be taken involving any

personal risk or without suitable training. If it is suspected that fumes are still present, the 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

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

rom the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 3/13

### Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: In case of major fire and large quantities: 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

: Fire-fighters should wear appropriate protective equipment and self-contained 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

: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely

For emergency responders

: Low release. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Low release. 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** 

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

Large spill

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

: No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.

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.

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 locked up. 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

None.

Appropriate engineering controls

: No special measures are required for small quantities under normal and intended conditions of product use.

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 4/13

### Section 8. Exposure controls/personal protection

**Environmental exposure** controls

: No special measures are required for small quantities under normal and intended conditions of product use.

### Individual protection measures

**Hygiene measures** 

: No special measures are required for small quantities under normal and intended

conditions of product use.

**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, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: No special measures are required for small quantities under normal and intended

conditions of product use.

Other skin protection

: Appropriate footwear and any additional skin protection measures 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

: No special measures are required for small quantities under normal and intended conditions of product use.

# Section 9. Physical and chemical properties

**Appearance** 

: Solid. [Paste.] **Physical state** 

Color : White. Odor : Sulfur.

**Odor threshold** : Not available. pΗ : Not available. **Melting point** : Not available. **Boiling point** : Not available. Flash point : Not available. : Not available. **Evaporation rate** Flammability (solid, gas) : Not available. Lower and upper explosive

(flammable) limits

: Not available.

: Not available. Vapor pressure Vapor density : Not available. **Relative density** : Not available.

**Solubility** : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available. Partition coefficient: n-: Not available.

octanol/water

Date of issue/Date of revision : 05/15/2015 : 11/25/2013 Version : 2 5/13 Date of previous issue

## Section 9. Physical and chemical properties

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

## Section 10. Stability and reactivity

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

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : Avoid excessive heat.

**Incompatible materials**: Reactive or incompatible with the following materials: reducing materials.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
BBP	LD50 Dermal	Rabbit	>10000 mg/kg	-
	LD50 Dermal	Rat	6700 mg/kg	-
	LD50 Oral	Rat	2330 mg/kg	-
octamethylcyclotetrasiloxane	LC50 Inhalation Vapor	Rat	36 g/m³	4 hours
	LD50 Dermal	Rat	1770 mg/kg	=
	LD50 Oral	Rat	1540 mg/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
octamethylcyclotetrasiloxane	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

### **Conclusion/Summary**

Skin

: Mucosal tissue: the average mucosal irritation score was within acceptable limits. The test article was not considered an irritant to the mucosal tissue of the rabbit and therefore not irritating to the mouth.

### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Permlastic Base	skin	Guinea pig	Not sensitizing

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 6/13

# **Section 11. Toxicological information**

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
BBP	-	3	-

### Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
BBP	Category 3		Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation.

**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:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 7/13

## Section 11. Toxicological information

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

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

**Teratogenicity**: May damage the unborn child.

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

Fertility effects : Suspected of damaging fertility.

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Not available.

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
BBP	Acute EC50 0.22 ppm Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 100 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 1000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 32.3 ppm Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 510 μg/l Marine water	Fish - Cymatogaster aggregata - Juvenile (Fledgling, Hatchling,	96 hours
Date of issue/Date of revision	: 05/15/2015 Date of previous issue	: 11/25/2013 <b>Version</b> : 2	8/13

# Section 12. Ecological information

		Weanling) Daphnia - Daphnia magna	21 days
sulfur octamethylcyclotetrasiloxane	Acute LC50 >100 ppm Fresh water Chronic NOEC 1.7 to 15 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours 21 days

### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ВВР	301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	93 % - 28 d	ays	-		-
octamethylcyclotetrasiloxane	-	0 % - 42 da	ys	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
BBP	-		-		Readily	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
BBP octamethylcyclotetrasiloxane	4.77	1693.25	high
	6.488	13400	high

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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

# 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.

# **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	Not regulated.	UN3077	UN3077
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BBP). Marine pollutant (BBP)	Environmentally hazardous substance, solid, n.o.s. (BBP)

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 9/13

# **Section 14. Transport information**

•	•		
Transport hazard class(es)	-	9	9
Packing group	-	III	III
Environmental hazards	Yes.	Yes.	Yes.
Additional information	-	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules (EmS) F-A, S-F  Special provisions 274, 335, 966, 967, 969	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Passenger and Cargo Aircraft Quantity limitation: 400 kg Packaging instructions: 956 Cargo Aircraft Only Quantity limitation: 400 kg Packaging instructions: 956 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y956  Special provisions A97, A158, A179, A197

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

: Not available.

# Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) PAIR: Siloxanes and Silicones, di-Me, reaction products with silica; octamethylcyclotetrasiloxane; Siloxanes and Silicones, di-Me, hydroxy-terminated; Cyclosiloxanes, di-Me

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

Clean Water Act (CWA) 307: zinc sulphide; BBP

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

Clean Air Act Section 602 **Class II Substances** 

: Not listed

Date of issue/Date of revision 10/13 : 05/15/2015 :11/25/2013 Version : 2 Date of previous issue

## Section 15. Regulatory information

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

### **SARA 302/304**

### **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

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

### **Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure		Immediate (acute) health hazard	Delayed (chronic) health hazard
BBP sulfur octamethylcyclotetrasiloxane		No. No. Yes.	No.	No. No. No.	Yes. Yes. No.	Yes. No. Yes.

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	zinc sulphide	1314-98-3	10-30
Supplier notification	zinc sulphide	1314-98-3	10-30

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.

### **State regulations**

Massachusetts : The following components are listed: BUTYL BENZYL PHTHALATE; SULFUR

New York : The following components are listed: Butyl benzyl phthalate

New Jersey : The following components are listed: ZINC compounds; BUTYL BENZYL PHTHALATE;

1,2-BENZENEDICARBOXYLIC ACID, BUTYL PHENYLMETHYL ESTER; SULFUR

Pennsylvania: The following components are listed: ZINC COMPOUNDS; 1,

2-BENZENEDICARBOXYLIC ACID, BUTYL PHENYLMETHYL ESTER; SULFUR

### California Prop. 65

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

Ingredient name	Cancer	Reproductive	level	Maximum acceptable dosage level
BBP	No.	Yes.		1200 µg/day (ingestion)

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 11/13

### Section 16. Other information

**Hazardous Material Information System (U.S.A.)** 



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** 



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### **History**

Date of issue/Date of

revision

: 05/15/2015

Date of previous issue : 11/25/2013

Version : 2

**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 : HCS (U.S.A.)- Hazard Communication Standard

International transport regulations

✓ Indicates information that has changed from previously issued version.

Notice to reader

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 12/13

## Section 16. Other information

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.

Date of issue/Date of revision : 05/15/2015 Date of previous issue : 11/25/2013 Version : 2 13/13