SAFETY DATA SHEETS

This SDS packet was issued with item: 071407725

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

272401701 272445096 273002162 273003629

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).

071409192 071409689 071410174 071410661 071410687 071418656 071418664 273004070

NAME OF PRODUCT: SOFTONE[™] Powder PINK

SECTION 1: IDENTIFICATION

PRODUCT NAME: PRODUCT CODES: IDENTIFIED USES: USES ADVISED AGAINST: MANUFACTURER: ADDRESS: TELEPHONE: FAX: EMAIL: EMERGENCY PHONE: SOFTONE Powder PINK 0921775P, 0921776P, 0921778P, 0921779P Dentistry Non-dental use Harry J. Bosworth Company 7227 North Hamlin Avenue, Skokie, Illinois 60076-3999, USA 847-679-3400 847-679-2080 hjbinfo@bosworth.com 800-535-5053 (US and Canada) 352-323-3500 (International) FILE NO.: SDS776P

SDS DATE: 06/19/2014

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION:	Acute toxicity Oral	(Category 5)	
	Acute toxicity, Oral (Category 5) Acute toxicity, Dermal (Category 5)		
	Eye irritation (Category 2B)		
	Acute toxicity, Inhalation (Category 5)		
	Specific target organ toxicity - single exposure (Category 3), Respiratory system		
	Germ cell mutagenicity (Category 2)		
	Carcinogenicity (Category 2)		
	Reproductive toxicity (Category 2)		
	Specific target organ toxicity - repeated exposure (Category 2)		
	Chronic aquatic toxicity (Category 4)		
LABELING:	FDA regulated device - exempt from Regulation (US) 29 CFR 1910.1200.		
PICTOGRAM:	rba regulated device - exempt from Regulation (03) 23 CFR 1310.1200.		
SIGNAL WORD:	Warning		
HAZARD STATEMENTS:	H303	May be harmful if swallowed.	
	H313	May be harmful in contact with skin.	
	H320	Causes eye irritation.	
	H333	May be harmful if inhaled.	
	H335	May cause respiratory irritation.	
	H341	Suspected of causing genetic defects.	
	H351	Suspected of causing cancer.	
	H361	Suspected of damaging fertility or the unborn child.	
	H373	May cause damage to organs through prolonged or repeated exposure.	
	H413	May cause long lasting harmful effects to aquatic life.	
PRECAUTIONARY STATEMENTS:	P201	Obtain special instructions before use.	
	P202	Do not handle until all safety precautions have been read and understood.	
	P234	Keep only in original container.	
	P235+P410	Keep cool. Protect from sunlight.	
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.	
	P264	Wash thoroughly after handling.	
	P270	Do not eat, drink or smoke when using this product.	
	P272	Contaminated work clothing should not be allowed out of the workplace.	
	P273	Avoid release to the environment.	
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	
	P301+P330	IF SWALLOWED: Rinse mouth.	
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for	
		breathing.	
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
		present and easy to do. Continue rinsing.	
	P308+P313	IF exposed or concerned: Get medical advice/attention.	
	P312	Call a POISON CENTER or doctor/ physician if you feel unwell.	
	P321	Specific treatment (see supplemental first aid instructions on this label).	
	P332+P313	If skin irritation occurs: Get medical advice/attention.	
	P337+P313	If eye irritation persists: Get medical advice/attention.	
	P342+P313	If experiencing respiratory symptoms: Get medical advice/attention.	
	P362	Take off contaminated clothing and wash before reuse.	
	P391	Collect spillage.	
		-	

NAME OF PRODUCT: SOFTONE[™] Powder PINK

FILE NO.: SDS776P SDS DATE: 06/19/2014

P402 P403+P233 P501 Store in a dry place. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	%WT	OSHA PEL - TWA	ACGIH TLV - TWA	CLASSIFICATION
Poly(ethyl methacrylate)	9003-42-3	60-100	15 mg/m ³ (T); 5 mg/m ³ (R)	10 mg/m ³ (T); 3 mg/m ³ (R)	N/A
Cadmium Pigments	7440-43-9	0.5-1.5	0.005 mg/m ³ (as Cd)	0.01 mg/m ³ (T); 0.002 mg/m ³ (R) (as Cd)	Acute Tox. 3; Acute Tox. 4; Acute Tox. 2; Muta. 2; Carc. 1B; Repr. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H330, H341, H350, H361, H372, H410
Titanium Dioxide	13463-67-7	0.5-1.5	15 mg/m ³ (T)	10 mg/m ³	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H332, H335

For full text of H-statements mentioned in this section, see section 16.

SECTION 4: FIRST-AID MEASURES

INHALATION:	Move person into fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention.
SKIN:	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
EYE:	Flush eyes with water for 15 minutes as a precaution. Get medical attention if irritation develops and persists.
INGESTION:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: HAZARDOUS DECOMPOSITION PRODUCTS	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. S: Methacrylate monomers and oxides of carbon.
SPECIAL HAZARDS:	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately
	those of coal dust.
ADVICE FOR FIREFIGHTERS:	Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into air, producing a fire hazard and possible explosion hazard if exposed to ignition source. Wear self contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
ENVIRONMENTAL PRECAUTIONS:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
CONTAINMENT AND CLEANUP:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Product is intended for dental use only. Handling of this product should be by trained dental healthcare
	professionals only. Observe normal care for working with chemicals. Avoid contact with skin and eyes. Avoid
	formation of dust and aerosols. Avoid inhalation of dust. Provide appropriate exhaust ventilation at places
	where dust is formed. Keep away from foodstuffs, beverages and animal feed.
CONDITIONS FOR SAFE STORAGE:	Store only in the original package. Keep container tightly closed in a dry and well-ventilated place. Protect
	from heat and direct sunlight. Store away from food and beverages.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Handle in accordance with good industrial hygiene and safety practice. Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Local exhaust ventilation is preferred since it prevents contamination dispersion into the work area by controlling it at its source. Provide eyewash and safety shower if contact or splash hazard exists. Wash hands before breaks and at the end of work.
EYE/FACE PROTECTION:	Safety glasses.
SKIN PROTECTION:	Glove material impermeable and resistant to the product.
BODY PROTECTION:	Protective work clothing.

PREPARED BY: SS

FILE NO.: SDS776P SDS DATE: 06/19/2014

NAME OF PRODUCT: SOFTONE[™] Powder PINK RESPIRATORY PROTECTION: NIOSH (US) or ENVIRONMENTAL EXPOSURE: Prevent further

NIOSH (US) or CEN (EU) approved respirators and components. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/COLOR: ODOR: FLASH POINT: RELATIVE DENSITY (H2O=1.0): WATER SOLUBILITY:

Fine pink powder Faint odor in bulk 579°F (304°C) 1.25 g/cm³ Insoluble

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under recommended storage conditions.
HAZARDOUS REACTIONS:	No further relevant information available.
CONDITIONS TO AVOID:	Temperatures above 464°F (240°C).
INCOMPATIBLE MATERIALS:	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Methacrylate monomers and oxides of carbon.	

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:	EYES: May cause eye irritation.
	SKIN: May be harmful if absorbed through skin. May cause skin irritation.
	INGESTION: May be harmful if swallowed.
	INHALATION: May be harmful if inhaled. May cause respiratory tract irritation.
CARCINOGENICITY:	OSHA: Cadmium is a regulated carcinogen by OSHA.
	ACGIH: Cadmium is identified as a suspected human carcinogen by ACGIH.
	NTP: Cadmium is identified as a known human carcinogen by NTP.
	IARC: Cadmium is identified as a human carcinogen by IARC. Titanium dioxide is identified as a possible
	human carcinogen by IARC.
REPRODUCTIVE TOXICITY:	Cadmium is a suspected human reproductive toxicant. Overexposure may cause reproductive disorders based on tests with laboratory animals.
	on costs with luboratory animals.

SECTION 12: ECOLOGICAL INFORMATION

ADVERSE	EFFECTS:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. May cause long lasting harmful effects to aquatic life. Avoid release to the environment.

The following components are subject to reporting levels established by SARA Title III, Section 313 (40 CFR

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT:	Offer surplus and non-recyclable solutions to a licensed disposal company. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to
	official regulations.
CONTAMINATED PACKAGING:	Dispose of as unused product.
SECTION 14: TRANSPORT IN	FORMATION
UN NUMBER:	N/A
PROPER SHIPPING NAME:	N/A
HAZARD CLASS:	N/A
PACKING GROUP:	N/A
LABEL STATEMENT:	N/A
SECTION 15: REGULATORY IN	IFORMATION
US FEDERAL REGULATIONS	
TSCA:	This product is an FDA regulated device and not subject to TSCA regulations.
CERCLA:	This product is an FDA regulated device and not subject to reporting requirements. There may be specific reporting requirements at the local, regional, or state level.

SARA 313 TOXIC CHEMICALS:

PREPARED BY: SS

372): Cadmium, CAS NO. 7440-43-9.

NAME OF PRODUCT: SOFTONE[™] Powder PINK SARA 311/312 HAZARDS: This product is FILE NO.: SDS776P

SDS DATE: 06/19/2014

This product is an FDA regulated device and not subject to reporting requirements.

US STATE REGULATIONS	
CALIFORNIA PROPOSITION 65:	This product may contain a chemical known to the State of California to cause cancer and/or reproductive toxicity.
INTERNATIONAL REGULATIONS	
CANADIAN ENVIRONMENTAL PROTECTION ACT: EUROPEAN INVENTORY OF EXISTING	This product is a medical device and not subject to chemical notification requirements.
COMMERCIAL CHEMICAL SUBSTANCES (EINECS):	This product is a medical device and not subject to chemical notification requirements.

SECTION 16: OTHER INFORMATION

FULL TEXT OF H STATEMENTS REFERRED TO UNDER SECTION 3

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
Muta.	Germ cell mutagenicity
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure
NFPA RATING	
Health Hazard	1
Fire Hazard	1

0

PREPARATION INFORMATION: This SDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product.

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, The Harry J. Bosworth Company does not assume 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 health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Reactivity Hazard



SAFETY DATA SHEET

Softone Liquid

Section 1. Identification

GHS product identifier	: Softone Liquid
Other means of identification	: Not available.
Product code	: 0921775, 0921777, 0921778, 0921780
Product type	: Liquid.
Product use	: Dental Products
Relevant identified uses o	f the substance or mixture and uses advised against
Not applicable.	
Supplier's details	: Keystone Industries 52 West King Street Myerstown, PA 17067 (856) 663-4700
Emergency telephone number (with hours of operation)	: (800) 535-5053
Section 2. Hazar	ds identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

	(29 GFR 1910.1200).
Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION (Unborn child) - Category 1B
	TOXIC TO REPRODUCTION (Fertility) - Category 2

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Signal word	: Danger
Hazard statements	: Flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. May cause cancer. May damage the unborn child. Suspected of damaging fertility.

Precautionary statements Prevention

GHS label elements Hazard pictograms

> : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Wash hands thoroughly after handling.

Section 2. Hazards identification

Response	: IF exposed or concerned: Get medical attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
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	: Not available.

CAS number/other identifiers

CAS number : Not applicable.

May contain one or more of the following components in quantities considered hazardous:

Ingredient name	CAS number	EC number	%
dibutyl phthalate	84-74-2		≥50 - ≤75
ethanol	64-17-5		≥10 - ≤25

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Data of issue/Data of rovision	: 5/24/2016 Data of provinus issue : No provinus validation Version : 1 2/14

Section 4. First aid measures

Most important sympt	oms/effects, acute and delayed
Potential acute health	<u>n effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs</u>	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	 Adverse symptoms may include the following: Suspected of damaging fertility. May damage the unborn child.
Skin contact	: Adverse symptoms may include the following: Suspected of damaging fertility. May damage the unborn child. redness irritation
Ingestion	: Adverse symptoms may include the following: Suspected of damaging fertility. May damage the unborn child.
Indication of immediat	in medical attention and appoint treatment peopled, if people

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

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the 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 dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Date of issue/Date of revision	: 5/24/2016 Date of previous issue : No previous validation Version : 1 3/14

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and

Carge spin

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

Section 7. Handling and storage

Precautions for safe handling

Protective measures
 Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
dibutyl phthalate	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2015). TWA: 5 mg/m ³ 8 hours. NIOSH REL (United States, 10/2013). TWA: 5 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours.
ethanol	ACGIH TLV (United States, 3/2015). STEL: 1000 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours. NIOSH REL (United States, 10/2013). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours.

Appropriate engineering controls	:	other engine recommend	eering controls to keep w ed or statutory limits. Th st concentrations below a			
Environmental exposure controls	:	they comply cases, fume	with the requirements of	rocess equipment should environmental protectior ineering modifications to s to acceptable levels.	n legislation. In some	
Individual protection meas	<u>ures</u>					
Hygiene measures	:	eating, smo Appropriate Wash conta	king and using the lavato techniques should be us	. ,	vorking period.	
Date of issue/Date of revision		: 5/24/2016	Date of previous issue	: No previous validation	Version : 1 5/	/14

Section 8. Exposure controls/personal protection

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	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Appearance		
Physical state	d. [Clear.]	
Color	less	
Odor	vailable.	
рН	vailable.	
Melting point	vailable.	
Boiling point	C (566.6°F)	
Flash point	ed cup: 52°C (125.6°F)	
Flammability (solid, gas)	y flammable in the presence of th s and static discharge, heat and s	e following materials or conditions: open flames, shocks and mechanical impacts.
Lower and upper explosive (flammable) limits	er: 3.3% er: 19%	
Vapor pressure	vailable.	
Vapor density	[Air = 1]	
Relative density		
Solubility	slightly soluble in the following ma	aterials: cold water and hot water.
Solubility in water	vailable.	
Partition coefficient: n- octanol/water	vailable.	
Auto-ignition temperature	vailable.	
Viscosity	vailable.	

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	: Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing 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
dibutyl phthalate ethanol	LD50 Oral LC50 Inhalation Vapor LD50 Oral	Rat	7499 mg/kg 124700 mg/m³ 7 g/kg	- 4 hours -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

Classification

Product/ingredient name	OSHA	IARC	NTP
ethanol	-	1	-

Information on the likely routes of exposure	: Not available.
Potential acute health effects	
Eye contact	: Causes serious eye irritation.

- Inhalation : No known significant effects or critical hazards.
- Skin contact : Causes skin irritation.

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Section 11. Toxicological information

Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: Suspected of damaging fertility. May damage the unborn child.
Skin contact	: Adverse symptoms may include the following: Suspected of damaging fertility. May damage the unborn child. redness irritation
Ingestion	: Adverse symptoms may include the following: Suspected of damaging fertility. May damage the unborn child.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
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

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
dibutyl phthalate	Acute EC50 3.4 µg/l Marine water	Algae - Gymnodinium breve	96 hours
	Acute EC50 2990 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 480 µg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 210 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 500 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 25 µg/l Fresh water	Fish - Danio rerio - Embryo	5 weeks
ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dibutyl phthalate	4.46	165.96	low
ethanol	-0.35	-	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #		Reference number
Dibutyl phthalate; 1,2-Benzenedicarboxylic acid, dibutyl ester	84-74-2	Listed	U069
Diethyl phthalate; 1,2-Benzenedicarboxylic acid, diethyl ester	84-66-2	Listed	U088

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Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	UN1993	UN1993	UN1993	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ethanol)	FLAMMABLE LIQUID, N.O.S. (ethanol)	FLAMMABLE LIQUID, N.O.S. (ethanol)	FLAMMABLE LIQUID, N.O.S. (ethanol)	FLAMMABLE LIQUID, N.O.S. (ethanol)	FLAMMABLE LIQUID, N.O.S (ethanol)
Transport hazard class(es)	3 ************************************	3	3	3 ••••••••••••••••••••••••••••••••••••	3	3
Packing group			111			
Environmental hazards	No.	No.	No.	No.	Yes.	No.
Additional information	This product may be re- classified as "Combustible Liquid," unless transported by vessel or aircraft. Non- bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel. This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.		The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Special provisions 640 (E) Tunnel code (D/E)	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

Softone Liquid			 	
Sectio	n 14. Transport info	rmation		
	road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.			
	Reportable quantity 18.772 lbs / 8. 5223 kg [2. 2291 gal / 8. 4379 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.			

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 : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
	Clean Water Act (CWA) 307: dibutyl phthalate; diethyl phthalate
	Clean Water Act (CWA) 311: dibutyl phthalate
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed

Section 15. Regulatory information

DEA List II Chemicals (Essential Chemicals)

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

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

Composition/information on ingredients

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
dibutyl phthalate		No.	No.	No.	No.	Yes.
ethanol		Yes.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	dibutyl phthalate	84-74-2	≥50 - ≤75
Supplier notification	dibutyl phthalate	84-74-2	≥50 - ≤75

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: DIBUTYL PHTHALATE; ETHYL ALCOHOL; DIETHYL PHTHALATE
New York	 The following components are listed: Di-n-butyl phthalate; 1,2-Benzenedicarboxylic acid, dibutyl ester; Diethyl phthalate
New Jersey	 The following components are listed: DI-N-BUTYL PHTHALATE; 1, 2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER; ETHYL ALCOHOL; ALCOHOL; DIETHYL PHTHALATE; 1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER; DEP
Pennsylvania	 The following components are listed: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER; DENATURED ALCOHOL; ETHANOL; 1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER

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	No significant risk level	Maximum acceptable dosage level
dibutyl phthalate methanol	No. No.	Yes. Yes.	No. No.	Yes. 23000 μg/day (ingestion) 47000 μg/day (inhalation)
anada inventory :	All components are lis	sted or exempted.		•

International regulations

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Section 15. Regulatory information

-	-
International lists	 Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): Not determined. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted. Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted. Turkey inventory: All components are listed or exempted.
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule Il Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

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.

1	Date of issue/Date of revision	: 5/24/2016	Date of previous issue	: No previous validation	Version : 1	13/14
	Date of issue/Date of revision	: 5/24/2016				
	Date of printing	: 5/27/2016				
	<u>History</u>					

Section 16. Other information

Date of previous issue	: No previous validation
Version	: 1
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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Information contained within this SDS is only to be distributed as required by law.



SAFETY DATA SHEET

Softone Powder White

Section 1. Identification

Section 2. Hazards identification		
Emergency telephone number (with hours of operation)	: (800) 535-5053	
Supplier's details	: Keystone Industries 52 West King Street Myerstown, PA 17067 (856) 663-4700	
Not applicable.		
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: Dental Products	
Product type	: Solid.	
Product code	: 0921775, 0921776, 0921778, 0921779	
Other means of identification	: Not available.	
GHS product identifier	: Softone Powder White	

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 SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 98.2%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: May cause an allergic skin reaction. May cause cancer.
Precautionary statement	<u>S</u>
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid breathing dust. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
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.

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Section 3. Composition/information on ingredients

Substance/mixture

: Mixture : Not available.

Other means of identification

CAS number/other identifiers

CAS number : Not applicable.

May contain one or more of the following components in quantities considered hazardous:

Ingredient name	CAS number	EC number	%
dibenzoyl peroxide	94-36-0	202-327-6	≤3
crystalline silica, respirable powder	14808-60-7	238-878-4	≤1
titanium dioxide	13463-67-7	236-675-5	≤0.3

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

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Inhalation	: No specific data.			
Eye contact	: No specific data.			
<u>Over-exposure signs/syn</u>	<u>otoms</u>			
Ingestion	: No known significant effects of	⁻ critical hazards.		
Skin contact	: May cause an allergic skin rea	ction.		
Inhalation	: No known significant effects of	· critical hazards.		
Eye contact	: No known significant effects of	⁻ critical hazards.		
Potential acute health eff	<u>cts</u>			

Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: redness irritation
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the 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	: None known.
Specific hazards arising from 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 metal oxide/oxides
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: 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, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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Section 6. Accidental release measures

Methods and materials for containment and cleaning up

Small spill	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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

Ingredient name			Exposure limits		
dibenzoyl peroxide		ACGIH TLV (United States, 3/2015). TWA: 5 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. NIOSH REL (United States, 10/2013). TWA: 5 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours.			
crystalline silica, respirable powder			OSHA PEL Z3 (United States, 2/2013). TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form: Respirable OSHA PEL 1989 (United States, 3/1989). TWA: 0.1 mg/m ³ , (as quartz) 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2015).		
ate of issue/Date of revision	: 7/26/2016	Date of previous issue	: No previous validation Version : 1 4/12		

Section 8. Exposure controls/personal protection

Section 8. Expos	ure controls/personal protection
titanium dioxide	TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2013). TWA: 0.05 mg/m ³ 10 hours. Form: respirable dust ACGIH TLV (United States, 3/2015). TWA: 10 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m ³ 8 hours. Form: Total dust
	OSHA PEL (United States, 2/2013). TWA: 15 mg/m ³ 8 hours. Form: Total dust
Appropriate engineering controls	 If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
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	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state	: Solid. [Fine powder]
Color	: White.
Odor	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: 304°C (579.2°F)
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
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- octanol/water	: Not available.
Auto-ignition temperature	: 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.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
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
dibenzoyl peroxide	LD50 Oral	Rat	6400 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
dibenzoyl peroxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Severe irritant	Human	-	1344 hours 5 Percent Intermittent	-
titanium dioxide	Skin - Moderate irritant Skin - Mild irritant	Woman Human	-	1 Percent 72 hours 300	-
				Micrograms Intermittent	

Classification

Short term exposure

Product/ingredient name	OSHA	IARC	NTP
dibenzoyl peroxide crystalline silica, respirable powder titanium dioxide	-	3 1 2B	- Known to be a human carcinogen. -

Information on the likely : Not available. routes of exposure Potential acute health effects

r oternar adate nearth encote	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: redness irritation
Ingestion	: No specific data.

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

<u>onort term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.

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Section 11. Toxicological information

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

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result				Species				Exposure
dibenzoyl peroxide	EC50 0.83 mg/l				Algae				72 hours
5 1	EC50 0.07 m				Daphnia				48 hours
	LC50 2 mg/l	0			Fish				96 hours
titanium dioxide	Acute LC50 3	mg/l F	Fresh water	-	Crustace	eans - Ceri	odaphnia		48 hours
	Acute LC50 6.5 mg/l Fresh water Acute LC50 >1000000 μg/l Marine water			dubia - Neonate Daphnia - Daphnia pulex - Neonate Fish - Fundulus heteroclitus				48 hours 96 hours	
Product/ingredient name	Test		Result			Dose		Inoc	ulum
dibenzoyl peroxide	-	- 60 % - 28 days			-		-		
Product/ingredient name	Aquatic half-life Phote		Photolys	is Biodeg		Biodeg	radab	oility	
dibenzoyl peroxide	-		-		Inherent				

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
dibenzoyl peroxide	3.2	-	low

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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	UN3077	UN3077	UN3077	UN3077	UN3077
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)
Transport hazard class(es)	-	9	9	9	9	9
Packing group	-	Ш	Ш	111	Ш	Ш
Environmental hazards	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.
Additional information	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4. 1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Tunnel code</u> (E)	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4. 1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. IMDG Code Segregation group 16 - Peroxides	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5. 0.2.4.1, 5.0.2.6. 1.1 and 5.0.2.8.

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 : Not available. to Annex II of MARPOL and the IBC Code

Date of issue/Date of revision

: 7/26/2016

Date of previous issue

Section 15. Regulatory information

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U.S. Federal regulations	:	TSCA 8	(a) CDR Exer	npt/Parti	al exemption	: Not determir	ned	
		United \$	States invent	ory (TSC	CA 8b): All con	nponents are	listed or exemp	oted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not liste	d					
Clean Air Act Section 602 Class I Substances	:	Not liste	d					
Clean Air Act Section 602 Class II Substances	:	Not liste	d					
DEA List I Chemicals (Precursor Chemicals)	:	Not liste	d					
DEA List II Chemicals (Essential Chemicals)	:	Not liste	d					
SARA 302/304								
Composition/information	on	ingredie:	<u>nts</u>					
No products were found.								
SARA 304 RQ	:	Not app	icable.					
<u>SARA 311/312</u>								
Classification	:		ate (acute) he (chronic) hea					
Composition/information	on	<u>ingredie</u>	<u>nts</u>					
Name			%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health	Delayed (chronic) health

	, o	hazard	release of pressure		(acute) health hazard	(chronic) health hazard
dibenzoyl peroxide	≤3	Yes.	No.	Yes.	Yes.	No.
crystalline silica, respirable powder	≤1	No.	No.	No.	No.	Yes.
titanium dioxide	≤0.3	No.	No.	No.	No.	Yes.

<u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements	dibenzoyl peroxide	94-36-0	≤3
Supplier notification	dibenzoyl peroxide	94-36-0	≤3

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

State regulations

Massachusetts New York	 The following components are listed: BENZOYL PEROXIDE None of the components are listed.
New Jersey	 The following components are listed: BENZOYL PEROXIDE; DIBENZOYLPEROXIDE; PLASTER OF PARIS; CALCIUM SULFATE (HEMIHYDRATE); SILICA, QUARTZ; QUARTZ (SiO2); TITANIUM DIOXIDE; TITANIUM OXIDE (TiO2)
Pennsylvania	: The following components are listed: PEROXIDE, DIBENZOYL; PLASTER OF PARIS; QUARTZ DUST; QUARTZ; TITANIUM OXIDE
California Prop. 65	

WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 15. Regulatory information

Ingredient name		Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level	
crystalline silica, respirable titanium dioxide	crystalline silica, respirable powder titanium dioxide		No. No.	No. No.	No. No.	
Canada inventory	: All comp	oonents are li	sted or exempted.		·	
International regulations						
	Japan i Korea i Malaysi New Ze Philippi Taiwan exempte	nventory (IS nventory: All a Inventory aland Invento nes invento Chemical St ed.	HL): Not determined components are liste (EHS Register): Not ory of Chemicals (N ry (PICCS): Not dete	ed or exempted. determined. \ZIoC) : All components	are listed or exempted.	
Chemical Weapons Convention List Schedule I Chemicals	: Not liste	d				
Chemical Weapons Convention List Schedule II Chemicals	: Not liste	d				
Chemical Weapons Convention List Schedule III Chemicals	: Not liste	d				

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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Date of issue/Date of revision

Section 16. Other information

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.

<u>History</u>	
Date of printing	: 7/26/2016
Date of issue/Date of revision	: 7/26/2016
Date of previous issue	: No previous validation
Version	: 1
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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Information contained within this SDS is only to be distributed as required by law.