## **SAFETY DATA SHEETS**

This SDS packet was issued with item: 075348420

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).

075341763 075348370 075348388 075348396 075348404 075348412 075348438



# SAFETY DATA SHEET

## Sledgehammer Self Cure Liquid

## Section 1. Identification

GHS product identifier	: Sledgehammer Self Cure Liquid
Other means of identification	: Not available.
Product code	: 1000521, 1000522, 1000523
Product type	: Liquid.
Product use	: Dental Products Monomer
Relevant identified uses of	the substance or mixture and uses advised against
Not applicable.	
Supplier's details	: Keystone Industries 616 Hollywood Ave. Cherry Hill, NJ 08002 (856) 663-4700
Emergency telephone number (with hours of operation)	: (800) 535-5053
Section 2. Hazard	ds 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	<ul> <li>FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</li> </ul>	
<u>GHS label elements</u> Hazard pictograms		



Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>May cause respiratory irritation.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face prote surfaces, sparks, open flames and other ignition

tection. Keep away from heat, hot parks, open flames and other ignition sources. No smoking. Use explosionproof electrical, ventilating, lighting and all material-handling equipment. Use only nonsparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

# Section 2. Hazards identification

Response	<ul> <li>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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. If skin irritation or rash occurs: Get medical attention.</li> </ul>
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
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	%
methyl methacrylate	80-62-6	201-297-1	75 - 100
Ethylene glycol dimethacrylate	97-90-5	202-617-2	5 - 10
N,N-dimethyl-p-toluidine	99-97-8	202-805-4	1 - 5

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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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.

Obtained by Global Safety Management, www.globalsafetynet.com (877) 683-7460

# Section 4. First aid measures

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 if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/	effects, acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
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	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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

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Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly 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.
Date of issue/Date of revision	: 4/28/2015. Date of previous issue : No previous validation. Version : 1 3/13

# Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen 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. 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	tiv	e 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 specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

	o for containing ap
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 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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.
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# 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	: Shield UV light sources. 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
Methyl methacrylate	ACGIH TLV (United States, 4/2014). Skin
	sensitizer.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 100 ppm 8 hours.
	TWA: 410 mg/m <sup>3</sup> 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 410 mg/m <sup>3</sup> 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
	TWA: 410 mg/m <sup>3</sup> 8 hours.
N,N-dimethyl-p-toluidine	AIHA WEEL (United States, 10/2011).
	TWA: 0.5 ppm 8 hours.

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Individual protection measures

eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothi 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.
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Date of issue/Date of revision

: 4/28/2015. Date of previ

Date of previous issue : No

# 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	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.			

# Section 9. Physical and chemical properties

## **Appearance**

Appearance	
Physical state	: Liquid. [Clear.]
Color	: Colorless
Odor	: Ester. [Strong]
рН	: Not available.
Melting point	: Not available.
Boiling point	: 101°C (213.8°F)
Flash point	: Closed cup: 20°C (68°F) [Tagliabue.]
Evaporation rate	: <1 (butyl acetate = 1)
Lower and upper explosive (flammable) limits	: Lower: 2% Upper: 12.5%
Vapor pressure	: 3.6 kPa (27 mm Hg) [room temperature]
Vapor density	: 3.45 [Air = 1]
Relative density	: 0.95
Solubility	: Partially soluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: 1.38
Auto-ignition temperature	: 395°C (743°F)
Viscosity	: Dynamic (room temperature): <1 mPa·s (<1 cP)

# 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 polymerization may occur under certain conditions of storage or use. These could cause the product to polymerize exothermically. Unintentional contact with them should be avoided.
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	
Methyl methacrylate	LC50 Inhalation Vapor	Rat	78000 mg/m <sup>3</sup>	4 hours	
, , , , , , , , , , , , , , , , , , ,	LD50 Dermal	Rabbit	>5 g/kg	-	
	LD50 Oral	Rat	7872 mg/kg	-	
Ethylene glycol dimethacrylate	LD50 Oral	Rat	3300 mg/kg	-	
N,N-dimethyl-p-toluidine	LC50 Inhalation Vapor LD50 Oral	Rat Rat	1400 mg/m³ 980 mg/kg	4 hours -	

## **Classification**

Product/ingredient name	OSHA	IARC	NTP
Methyl methacrylate	-	3	-

## Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Methyl methacrylate	Category 3		Respiratory tract irritation
Ethylene glycol dimethacrylate	Category 3		Respiratory tract irritation

# Information on the likely : Not available. routes of exposure

Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	May cause respiratory irritation.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	÷	No known significant effects or critical hazards.

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

# Section 11. Toxicological information

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	<ul> <li>Adverse symptoms may include the following: respiratory tract irritation coughing</li> </ul>
Skin contact	: Adverse symptoms may include the following: redness irritation
Ingestion	: No specific data.

Delayed and immediate effect	ts	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	1	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

## Numerical measures of toxicity

Acute toxicity estimates	
Route	ATE value
Oral Inhalation (vapors)	26706.7 mg/kg 137 mg/l

# Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
Methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas - Adult	96 hours
N,N-dimethyl-p-toluidine	Acute LC50 46000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
<b>Biogeographics and antical</b>	·	· ·	

**Bioaccumulative potential** 

# Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Sledgehammer Self Cure Liquid	1.38	-	low
Methyl methacrylate Ethylene glycol dimethacrylate	1.38 1.87	-	low low
N,N-dimethyl-p-toluidine	1.729	33	low

Mobility in soil	
Soil/water partition	: Not av
coefficient (Koc)	

vailable.

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 #	Status	Reference number
Methyl methacrylate (I,T); 2-Propenoic acid, 2-methyl-, methyl ester (I,T)	80-62-6	Listed	U162

## Section 14. Transport information

DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN1993	UN1993	UN1993	UN1993	UN1993	UN1993
FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)	FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)	FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)	FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)	FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)	FLAMMABLE LIQUID, N.O.S (methyl methacrylate)
3	3	3	3	3	3
П	11	11	11	11	11
No.	No.	No.	No.	No.	No.
	Classification UN1993 FLAMMABLE LIQUID, N.O.S. (methyl methacrylate) 3	ClassificationClassificationUN1993UN1993FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)33IIII	ClassificationClassificationClassificationUN1993UN1993UN1993FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)333IIIIII	ClassificationClassificationUN1993UN1993UN1993FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)333JJ3JJJJIIII	ClassificationClassificationClassificationUN1993UN1993UN1993UN1993FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)33333IIIIIIIIIIII

#### otion 11 Τ. --ort informatio

Additional information     Reportable guantity 1110.4 lbs / 504.12 kg [140. 18 gal / 530.65     -     Special provisions 640 (C)     -       Tunnel code     -     -	Section 14.	Transport	informatio	on			
L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	Additional	Reportable quantity 1110.4 lbs / 504.12 kg [140. 18 gal / 530.65 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation	-	-	provisions 640 (C)	-	-

## 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 73/78 and the IBC Code

# Section 15. Regulatory information

-	-
U.S. Federal regulations	: TSCA 8(a) PAIR: MEHQ
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
	Clean Water Act (CWA) 311: methyl methacrylate
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
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	

: 4/28/2015. Date of previous issue

# Section 15. Regulatory information

## Classification

: Fire hazard Reactive 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
Methyl methacrylate		Yes.	No.	No.	Yes.	No.
Ethylene glycol dimethacrylate		No.	No.	No.	Yes.	No.
N,N-dimethyl-p-toluidine		Yes.	No.	No.	Yes.	No.

## SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	methyl methacrylate	80-62-6	75 - 100
Supplier notification	methyl methacrylate	80-62-6	75 - 100

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: METHYL METHACRYLATE
New York	<ul> <li>The following components are listed: Methyl methacrylate; 2-Propenoic acid, 2-methyl-, methyl ester</li> </ul>
New Jersey	<ul> <li>The following components are listed: METHYL METHACRYLATE; 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER</li> </ul>
Pennsylvania	<ul> <li>The following components are listed: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER</li> </ul>

## California Prop. 65

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

Ingredient name N,N-dimethyl-p-toluidine		Cancer	Reproductive	No significant risk level No.	Maximum acceptable dosage level No.
		Yes.	No.		
Canada inventory	: All c	omponents are lis	sted or exempted.		
nternational regulations					
	<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Japan inventory: All components are listed or exempted.</li> <li>Korea inventory: All components are listed or exempted.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): All components are listed or exempted.</li> </ul>				
Chemical Weapons Convention List Schedule I Chemicals	: Not I	isted			
Chemical Weapons Convention List Schedule II Chemicals	: Not I	isted			

Date of issue/Date of revision

: 4/28/2015. Date of previous issue

Date of previous issue : No previous validation.

Version :1

# Section 15. Regulatory information

Chemical Weapons
<b>Convention List Schedule</b>
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.

<u>History</u>	
Date of printing	: 4/28/2015.
Date of issue/Date of revision	: 4/28/2015.
Date of previous issue	: No previous validation.
Version	: 1
Key to abbreviations	<ul> <li>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 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</li> </ul>
References	: Not available.
Indicates information th	at has changed from previously issued version.
Notice to reader	

# 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.

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



# **SAFETY DATA SHEET**

## Sledgehammer Self Cure Powder

# Section 1. Identification

GHS product identifier	: Sledgehammer Self Cure Powder
Other means of identification	: Not available.
Product code	: 1000507-1000515, 1000547-1000549, 1001969-1001972
Product type	: Powder.
Product use	: Dental Products Polymer
Relevant identified uses o	f the substance or mixture and uses advised against
Not applicable.	
Supplier's details	: Keystone Industries 616 Hollywood Ave. Cherry Hill, NJ 08002 (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).
Classification of the substance or mixture	: COMBUSTIBLE DUSTS CARCINOGENICITY - Category 2
	Denote the second state of the second state of the second sector $(x)$ of the same territies $(x)$

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 99%

GHS label elements
Hazard pictograms



Signal word	Warning	
Hazard statements	May form combustible dust concentrations in air. Suspected of causing cancer.	
Precautionary statements		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions hav been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing.	ve
Response	IF exposed or concerned: Get medical attention.	
Storage	Store locked up.	
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.	b
Supplemental label elements	Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flar and other ignition sources. No smoking. Prevent dust accumulation.	nes
Hazards not otherwise classified	Fine dust clouds may form explosive mixtures with air. Handling and/or processing this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.	

# 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	%
titanium dioxide	13463-67-7	236-675-5	0.1 - 1

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. 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.

Most important symptoms	<u>effects, acute an</u>	<u>d delayed</u>			
Potential acute health effe	ects				
Eye contact	•	airborne concentrations irritation of the eyes.	above statutory or r	ecommended exposure	limits
Inhalation	•	airborne concentrations irritation of the nose, three	,	ecommended exposure	limits
Skin contact	: No known s	ignificant effects or critic	al hazards.		
Ingestion	: No known s	ignificant effects or critic	al hazards.		
Over-exposure signs/sym	<u>ptoms</u>				
Eye contact	: Adverse syr irritation redness	nptoms may include the	following:		
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# Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.
Notes to physician	<ul> <li>dical attention and special treatment needed, if necessary</li> <li>Treat symptomatically. Contact poison treatment specialist immediately if large guantities have been ingested or inhaled.</li> </ul>
Specific treatments	No specific treatment.
· · ·	
Protection of first-aiders	<ul> <li>No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</li> </ul>

## See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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, protect	<u>tiv</u>	e 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 dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

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# Section 6. Accidental release measures

Small spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.
Large spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Avoid creating dusty conditions and prevent wind dispersal. 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). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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	: Do not store above the following temperature: 200°C (392°F). 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
titanium dioxide	ACGIH TLV (United States, 4/2014). TWA: 10 mg/m <sup>3</sup> 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust OSHA PEL (United States, 2/2013). TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust

Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460

# Section 8. Exposure controls/personal protection

Appropriate engineering controls	: Use only with adequate ventilation. 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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 measu	res
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. 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. If operating conditions cause high dust concentrations to be produced, use dust 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	<ul> <li>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.</li> </ul>
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	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

Date of issue/Date of revision	: 5/14/2015 Date of previous issue : 4/21/2015 Version : 1	5/11
Vapor density	: Not available.	
Vapor pressure	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Flash point	: Closed cup: 304°C (579.2°F) [Tagliabue.]	
Boiling point	: Not available.	
Melting point	: Not available.	
рН	: Not applicable.	
Odor	: Faint odor. [Slight]	
Color	: Colored	
Physical state	: Solid. [Powder.]	
Appearance		

# Section 9. Physical and chemical properties

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.
Decomposition temperature	: 200°C (392°F)
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	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
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

Irritatio	n/Co	rrosior	1
minutio		105101	

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-

## **Classification**

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-

## Information on the likely

## routes of exposure

: Not available.

Potential acute health effe	<u>cts</u>				
Eye contact		o airborne concentrations irritation of the eyes.	s above statutory or r	ecommended exposure	limits
Inhalation		o airborne concentrations irritation of the nose, thro		ecommended exposure	limits
Skin contact	: No known	significant effects or critic	al hazards.		
Ingestion	: No known	significant effects or critic	al hazards.		
Date of issue/Date of revision	: 5/14/2015	Date of previous issue	: 4/21/2015	Version : 1	6/1

# Section 11. Toxicological information

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

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

Delayed and immediate effect	:ts	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
General	:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	1	Suspected of causing 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.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
Fertility effects	1	No known significant effects or critical hazards.

## **Numerical measures of toxicity**

Acute toxicity estimates

Not available.

# Section 12. Ecological information

<u>Toxicity</u>					
Product/ingredient name	Result		Species		Exposure
titanium dioxide	Acute LC50 3 mg/l	Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate Daphnia - Daphnia pulex - Neonate Fish - Fundulus heteroclitus		48 hours
	Acute LC50 6.5 mg	/I Fresh water			48 hours
	Acute LC50 >10000	000 µg/l Marine water			96 hours
Bioaccumulative potential					<u>.</u>
Product/ingredient name	LogPow BCF Potential				
titanium dioxide	- 352			low	

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Version :1

# Section 12. Ecological information

## 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.

United States - RCRA Toxic hazardous waste "U" List

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

# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	Reportable quantity 25000 lbs / 11350 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable		-			-

# Section 14 Transport information

Section 14.	Transport morn	alion		
	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 73/78 and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations	:	United S	States inve	entory (TSC	-	•	ned listed or exemp	ited.
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	<u>on</u>	<u>ingredie</u>	<u>nts</u>					
No products were found.								
SARA 304 RQ		Not appl	licable					
SARA 311/312		not app						
Classification	:	Not appl	licable.					
Composition/information	<u>on</u>	<u>ingredie</u>	<u>nts</u>					
Name			%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
titanium dioxide			0.1 - 1	No.	No.	No.	No.	Yes.
State regulations				•				
Massachusetts	:	The follo	owina comr	oonents are	listed: DIETH	IYL PHTHALA	TE	
New York					listed: Diethy			
New Jersey	:	The follo 2-BENZ	owing comp	onents are	listed: DIETH	IYL PHTHALA	TE; 1, EP; TITANIUM I	DIOXIDE;

: 4/21/2015

# Section 15. Regulatory information

Pennsylvania

: The following components are listed: 1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER; TITANIUM OXIDE (TIO2)

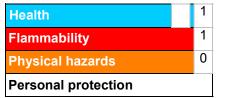
## California Prop. 65

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

Ingredient name		Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
titanium dioxide		Yes.	No.	No.	No.
Canada inventory International regulations	: All com	ponents are lis	sted or exempted.		
International lists	China i Japan i Korea i Malays New Ze Philipp	nventory (IEC inventory: All inventory: All ia Inventory ( ealand Inventor ines inventor	CSC): All component components are list components are list (EHS Register): Not ory of Chemicals (N ry (PICCS): All comp	ed or exempted.	l. are listed or exempted. mpted.
Chemical Weapons Convention List Schedule I Chemicals	: Not liste	ed			
Chemical Weapons Convention List Schedule II Chemicals	: Not liste	ed			
Chemical Weapons Convention List Schedule III Chemicals	: Not liste	ed			

# 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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# 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	: 5/14/2015
Date of issue/Date of revision	: 5/14/2015
Date of previous issue	: 4/21/2015
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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

## Notice to reader

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