

SAFETY DATA SHEETS

This SDS packet was issued with item:

071628130

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).

071628221

Dux Dental Material Safety Data Sheet

Dux Dental
600 E. Hueneme Road
Oxnard, CA, USA

Phone: 800.833.8267
Fax: 805.488.2266
www.duxdental.com

Product ZONE Temporary Cement
Other Name ZONE Temporary Cement Shade A1, Temporary Cement Aesthetic Kit, Zone Free Temporary Cement
REF 27029,27039, 27040, 27041, 27042, 27043, 27044, 27045, 27046, 27047, 27244

MSDS Number MS232

Hazardous Ingredients

Principal Hazardous Components	pel / tlv	CAS Number	Percentage
NA	NA	NA	NA

Physical and Chemical Characteristics

Appearance A two paste system (yellow or clear base, white cat) which sets to a pliable mass.

Boiling Point NA

Melting Point NA

Vapor Pressure NA

Evaporation Rate NA

Odor None

Vapor Density NA

Specific Gravity NA

Water Solubility Slight

Fire & Explosion Data

Explosion Not considered to be an explosion hazard.

Fire Not considered to be a fire hazard.

Fire Ext. Type A B C

Flashpoint NA

Special Fire Procedures None

Unusual Hazards None Known

Reactivity Data

Stability Stable

Incompatibilities None Known

Hzd Decomp Products Carbon monoxide

Hazardous Polymerization Will not occur.

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MSDS Number MS232

Health Hazard Information

Ingestion	NA
Inhalation	NA
Skin/Eye Contact	May cause irritation.
Toxicity Data	No harm via exposures of normal use; harmful only due to overwhelming dose or unusual conditions.
Acute Hazards	None
Chronic Hazards	None
Carcinogenicity	NA, no product ingredient listed by NTP, IARC, or OSHA.

Precautions for Safe Handling and Use

Cleanup	Allow to set and remove from surface.
Disposal	Dispose of in accordance with local, state, and federal regulations.
Precautions	As part of good industrial, personal hygiene, and safety practice avoid all unnecessary exposure to the substance and ensure prompt removal from skin, eyes, and clothing.

Occupational Control Measures

Eye Protection	NA
Gloves	NA
Dust/Particulate Mask	NA
Other	NA

Additional Information

DOT Hazard Class	Not Regulated
DOT Small Qty Exception	NA
DOT Other Exception	NA
DOT Exception Permitted	NA
Allergenic Ingredients	This product does not contain Latex, Peanut Products, Gluten, or Red Dye #3.

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, the company makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Accordingly, we will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.




SAFETY DATA SHEET

Zone Temporary Cement

Section 1. Identification

GHS product identifier	: Zone Temporary Cement
Other means of identification	: Zone Free Temporary Cement, Zone Temporary Cement Shade A1
Product type	: Paste.
Relevant identified uses of the substance or mixture and uses advised against	
Product use	: Dental product: Temporary cement
Area of application	: Professional applications.
Manufacturer	: DUX DENTAL Inc. 600 E. Hueneme Road Oxnard, CA 93033 Telephone no.: 805-488-1122 or 800-833-8267 Fax no.: 800-444-5170 www.duxdental.com
e-mail address of person responsible for this SDS	: edwin.varela@kavokerrgroup.com
Emergency telephone number (with hours of operation)	: CHEMTREC® (24 hours) U.S. : 1-800-424-9300 International: +1-703-527-3887

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Health effects are based on the uncured material.
Classification of the substance or mixture	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%
GHS label elements	
Hazard pictograms	: 
Signal word	: Warning
Hazard statements	: Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.

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Section 2. Hazards identification

Precautionary statements

- Prevention** : Wear protective gloves. Wear eye or face protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
- Response** : IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Storage** : Not applicable.
- 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** : Zone Free Temporary Cement, Zone Temporary Cement Shade A1

CAS number/other identifiers

- CAS number** : Not applicable.
- Product code** : 27029, 27041, 27042, 27046, 27045, 27039, 27040, 27043, 27044, 27047

Ingredient name	Other names	%	CAS number
zinc oxide	zinc oxide	30-60	1314-13-2
2-ethoxybenzoic acid	2-ethoxybenzoic acid	10-30	134-11-2
benzocaine	benzocaine	1-5	94-09-7
acetic acid	acetic acid	1-5	64-19-7
methyl 4-hydroxybenzoate	methyl 4-hydroxybenzoate	0.1-1	99-76-3

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 and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Inhalation** : No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
- Skin contact** : No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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Section 4. First aid measures

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

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

- Notes to physician** : 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** : In case of major fire and large quantities: 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : Do not use water jet.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters : In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely
- For emergency responders** : Low release. See also the information in "For non-emergency personnel".

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

Methods and materials for containment and cleaning up

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

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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
zinc oxide	NIOSH REL (United States, 10/2013). CEIL: 15 mg/m ³ Form: Dust TWA: 5 mg/m ³ 10 hours. Form: Dust and fumes STEL: 10 mg/m ³ 15 minutes. Form: Fume OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Fume STEL: 10 mg/m ³ 15 minutes. Form: Fume TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 2/2013).

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Section 8. Exposure controls/personal protection

acetic acid

TWA: 5 mg/m³ 8 hours. Form: Fume
 TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
 TWA: 15 mg/m³ 8 hours. Form: Total dust
ACGIH TLV (United States, 4/2014).
 TWA: 2 mg/m³ 8 hours. Form: Respirable fraction
 STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction
ACGIH TLV (United States, 4/2014).
 TWA: 10 ppm 8 hours.
 TWA: 25 mg/m³ 8 hours.
 STEL: 15 ppm 15 minutes.
 STEL: 37 mg/m³ 15 minutes.
OSHA PEL 1989 (United States, 3/1989).
 TWA: 10 ppm 8 hours.
 TWA: 25 mg/m³ 8 hours.
NIOSH REL (United States, 10/2013).
 TWA: 10 ppm 10 hours.
 TWA: 25 mg/m³ 10 hours.
 STEL: 15 ppm 15 minutes.
 STEL: 37 mg/m³ 15 minutes.
OSHA PEL (United States, 2/2013).
 TWA: 10 ppm 8 hours.
 TWA: 25 mg/m³ 8 hours.

Appropriate engineering controls

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

Environmental exposure controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

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

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure controls/personal protection

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

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Paste.]

Color : Base: Yellow./Clear.
Catalyst.: White.

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : Not available.

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Not applicable.

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

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : Not available.

Solubility : Very slightly soluble 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 : Not available.

SADT : Not available.

Viscosity : Not available.

Section 10. Stability and reactivity

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

Chemical stability : The product is stable.

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

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Section 10. Stability and reactivity

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
benzocaine	LD50 Oral	Rat	3042 mg/kg	-
acetic acid	LC50 Inhalation Dusts and mists	Rat	11000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-
methyl 4-hydroxybenzoate	LD50 Oral	Rat	2100 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
acetic acid	Eyes - Mild irritant	Rabbit	-	0.5 minutes 5 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 milligrams	-
	Skin - Severe irritant	Rabbit	-	525 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 50 milligrams	-
methyl 4-hydroxybenzoate	Skin - Mild irritant	Rabbit	-	24 hours 0.1 Milliliters	-
	Skin - Moderate irritant	Rabbit	-	504 hours 0.5 Milliliters Intermittent	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
2-ethoxybenzoic acid	Category 3	Not applicable.	Respiratory tract irritation
methyl 4-hydroxybenzoate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- 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

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

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

Short term exposure

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

Long term exposure

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

Potential chronic health effects

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.

Section 11. Toxicological information

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

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	26091.4 mg/kg
Dermal	67694.3 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
zinc oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute IC50 46 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
benzocaine	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
acetic acid	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
methyl 4-hydroxybenzoate	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 50.1 µl/L Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 75000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 41.1 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetic acid	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
zinc oxide	-	60960	high
benzocaine	1.86	-	low
acetic acid	-0.17	3.16	low
methyl 4-hydroxybenzoate	1.98	-	low

Mobility in soil

Section 12. Ecological information

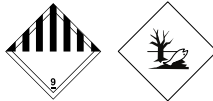
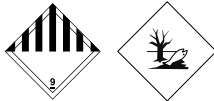
Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	UN3082	UN3082
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide, benzocaine). Marine pollutant (zinc oxide, benzocaine)	Environmentally hazardous substance, liquid, n.o.s. (zinc oxide, benzocaine)
Transport hazard class(es)	-	9 	9 
Packing group	-	III	III
Environmental hazards	No.	Yes.	Yes.
Additional information	-	<p>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.</p> <p>Emergency schedules (EmS) F-A, S-F</p> <p>Special provisions 274, 335, 969</p>	<p>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.</p> <p>Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964</p> <p>Cargo Aircraft OnlyQuantity limitation: 450 L Packaging instructions: 964</p> <p>Limited Quantities - Passenger AircraftQuantity limitation: 30 kg Packaging instructions: Y964</p> <p>Special provisions A97, A158, A197</p>

Section 14. Transport information

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 6 proposed risk management:** lead
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: zinc oxide; Cadmium (Non-pyrophoric); lead
Clean Water Act (CWA) 311: acetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

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

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
zinc oxide	30-60	No.	No.	No.	Yes.	No.
2-ethoxybenzoic acid	10-30	No.	No.	No.	Yes.	No.
benzocaine	1-5	No.	No.	No.	Yes.	No.
acetic acid	1-5	Yes.	No.	No.	Yes.	No.
methyl 4-hydroxybenzoate	0.1-1	No.	No.	No.	Yes.	No.

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	zinc oxide	1314-13-2	30-60
	aluminium oxide	1344-28-1	1-5
	lead	7439-92-1	0.000445
Supplier notification	zinc oxide	1314-13-2	30-60
	aluminium oxide	1344-28-1	1-5

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: ZINC OXIDE FUME; ALUMINUM OXIDE; MAGNESIUM OXIDE FUME; ACETIC ACID

New York

: The following components are listed: Acetic acid

New Jersey

: The following components are listed: ZINC OXIDE; ALUMINUM OXIDE; alpha-ALUMINA; MINERAL OIL (UNTREATED and MILDLY TREATED); MAGNESIUM OXIDE; ACETIC ACID; ETHANOIC ACID

Pennsylvania

: The following components are listed: ZINC OXIDE (ZNO); ALUMINUM OXIDE (AL2O3); MAGNESIUM OXIDE (MGO); ACETIC ACID

California Prop. 65

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

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Cadmium (Non-pyrophoric)	Yes.	Yes.	0.05 µg/day (inhalation)	4.1 µg/day (ingestion)
lead	Yes.	Yes.	15 µg/day (ingestion)	Yes.

Section 16. Other information

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

Health	* 2
Flammability	0
Physical hazards	0

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.)



Section 16. Other information

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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

History

Date of issue/Date of revision	: 06/01/2015
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 = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

✔ Indicates information that has changed from previously issued version.

Notice to reader

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.