

SAFETY DATA SHEET

1. Identification

Product identifier	PET-OX® DRY	
Other means of identification		
Product code	007867	
Recommended use	Antioxidant	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	Kemin Industries, Inc. 2100 Maury Street Des Moines, Iowa 50317 United States	
Telephone Website E-mail Emergency phone number	(515) 559-5100 http://www.kemin.com/ media@kemin.com CHEMTREC	1-800-424-9300

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Sensitization, skin
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	



Signal word	Warning
Hazard statement	May cause an allergic skin reaction.
Precautionary statement	
Prevention	Avoid breathing dust. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

Category 1

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Calcium Carbonate		471-34-1	50 - < 60*
Silicon Dioxide		112926-00-8	10 - < 20*
Citric Acid		77-92-9	3 - < 5*
Butylated Hydroxyanisole		25013-16-5	1 - < 3*

Chemical name	Common name and synonyms	CAS number	%
Butylated Hydroxytoluene		128-37-0	1 - < 3*
Other components below reportable levels			10 - < 20

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dusts may irritate the respiratory tract, skin and eyes. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water spray. Foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.

g r, У media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters **Fire fighting** Use water spray to cool unopened containers. equipment/instructions Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Minimize dust generation and accumulation. Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	Form
Calcium Carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
	ER 4040 4000)	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CF Components	Type	Value	
Silicon Dioxide (CAS 112926-00-8)	TWA	0.8 mg/m3	
()		20 mppcf	
US. ACGIH Threshold Limi			F a
Components	Туре	Value	Form
Butylated Hydroxytoluene (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide t	to Chemical Hazards		
Components	Туре	Value	Form
Butylated Hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m3	
Calcium Carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Silicon Dioxide (CAS 112926-00-8)	TWA	6 mg/m3	
logical limit values	No biological exposure limits noted	for the ingredient(s).	
propriate engineering htrols	Good general ventilation (typically 1 should be matched to conditions. If or other engineering controls to main exposure limits have not been estable engineering measures are not suffic Occupational Exposure Limit (OEL), ground, cut, or used in any operation ventilation to keep exposures below	applicable, use process enclosu ntain airborne levels below reco blished, maintain airborne levels cient to maintain concentrations , suitable respiratory protection n which may generate dusts, us	ures, local exhaust ventilatio ommended exposure limits. I to an acceptable level. If of dust particulates below th must be worn. If material is se appropriate local exhaust
ividual protection measures	s, such as personal protective equipr		
Eye/face protection	Wear safety glasses with side shield	ds (or goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant supplier.	t gloves. Suitable gloves can be	e recommended by the glove
Other	Wear appropriate chemical resistant	t clothing. Use of an impervious	apron is recommended.
Respiratory protection	Use a NIOSH/MSHA approved resp exceeding the exposure limits.	irator if there is a risk of exposu	ire to dust/fume at levels
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.	
neral hygiene nsiderations	Always observe good personal hygional and before eating, drinking, and/or sequipment to remove contaminants.	smoking. Routinely wash work	clothing and protective

9. Physical and chemical properties

Appearance	Powder.
Physical state	Solid.
Form	Powder.
Color	Beige
Odor	Characteristic.
Odor threshold	Not available.
рН	5.5
-	

Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	47 - 49 lb/ft ³
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Acids. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Dust or powder may irritate the skin. May cause an allergic skin reaction.
Eye contact	Dust may irritate the eyes.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Dusts may irritate the respiratory tract, skin and eyes. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity

May cause an allergic skin reaction.

Species	Test Results	
5013-16-5)		
	2000 mg/kg	
	2200 mg/kg	
28-37-0)		
o · · · ·	(0700 · //	
	10700 mg/kg	
Mouse	1040 mg/kg	
Rat	890 mg/kg	
-1)		
Mouse	6450 mg/kg	
Rat	6450 mg/kg	
Mouse	5040 mg/kg	
Rat	6730 mg/kg	
8)		
Mouse	> 15000 mg/kg	
Rat	> 22500 mg/kg	
he haved on additional compo	aant data not abown	
•		
Direct contact with cycs me		
n		
May cause an allergic skin reaction.		
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Risk of cancer cannot be ex	cluded with prolonged exposure.	
Evaluation of Carcinogenic	ty	
Butylated Hydroxyanisole (CAS 25013-16-5)2B Possibly carcinogenic to humans.Butylated Hydroxytoluene (CAS 128-37-0)3 Not classifiable as to carcinogenicity to humans.		
		,
	,	
ogram (NTP) Report on Caro	cinogens	
e (CAS 25013-16-5)	Reasonably Anticipated to be a Human Carcinogen.	
This product is not expecte	d to cause reproductive or developmental effects.	
Not classified.		
Not classified.		
Not classified. Not an aspiration hazard.		
	-1) Mouse Rat Mouse Rat 8) Mouse Rat 8) Mouse Rat be based on additional compose Prolonged skin contact may Direct contact with eyes may Direct contact with eyes may Direct contact with eyes may Direct contact with eyes may n Not a respiratory sensitizer. May cause an allergic skin No data available to indicat mutagenic or genotoxic. Risk of cancer cannot be eye Evaluation of Carcinogenici e (CAS 25013-16-5) te (CAS 128-37-0) 2926-00-8) ed Substances (29 CFR 1910 rogram (NTP) Report on Carcinogenici e (CAS 25013-16-5)	

Contains butylated hydroxyanisole (BHA). Rats, mice, and hamsters given high levels (1 and 2%) of BHA in their food have developed malignant tumors (cancer) of the forestomach. No excess incidence of benign or malignant tumors was seen in animals fed BHA at levels below 0.5%. In experimental feeding studies, the forestomach of rodents is almost continuously full of food. The continuous presence of food containing BHA causes prolonged irritation that leads to inflammation, necrosis (death of tissue cells), and ulceration. It is thought that this continuous tissue damage is responsible for producing the cancers. No inflammation or cancers were seen in the true (glandular) stomach of these rodents, even after prolonged feeding, nor were they seen in animals which do not have forestomachs (quinea pigs, dogs, and monkeys) fed BHA in the diet at levels around 1 %. Since the stomach of humans is similar in structure to the glandular stomach of rodents and to the stomachs of dogs, monkeys, and guinea pigs, It is likely that BHA does not present a significant risk of cancer to humans exposed to BHA at levels typical of occupational exposures or consumer use. Contains an IARC (International Agency for Research on Cancer) 2B material. IARC 2B is a classification for possible human carcinogen based on sufficient evidence on carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
Calcium Carbonate (CA	AS 471-34-1)			
Aquatic				
Fish	LC50	Western mosquitofish (Gan	nbusia affinis) > 56000 mg/l, 96 hours	

* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Superfund Amendments and Reauthorization Act of 1986 (SARA) **Hazard categories** Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act Not regulated. (SDWA) US state regulations US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed. US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) Butylated Hydroxyanisole (CAS 25013-16-5) **US. Massachusetts RTK - Substance List** Butylated Hydroxyanisole (CAS 25013-16-5) Butylated Hydroxytoluene (CAS 128-37-0) Calcium Carbonate (CAS 471-34-1) Silicon Dioxide (CAS 112926-00-8) US. New Jersey Worker and Community Right-to-Know Act Butylated Hydroxyanisole (CAS 25013-16-5) Butylated Hydroxytoluene (CAS 128-37-0) Calcium Carbonate (CAS 471-34-1) Silicon Dioxide (CAS 112926-00-8) US. Pennsylvania Worker and Community Right-to-Know Law Butylated Hydroxytoluene (CAS 128-37-0) Calcium Carbonate (CAS 471-34-1) **US. Rhode Island RTK** Not regulated. **US. California Proposition 65** WARNING: This product contains a chemical known to the State of California to cause cancer. US - California Proposition 65 - CRT: Listed date/Carcinogenic substance Butylated Hydroxyanisole (CAS 25013-16-5) Listed: January 1, 1990 International Inventories Country(s) or region Inventory name On inventory (yes/no)* Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	06-04-2015
Revision date	01-04-2016
Version #	03
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.