

Compendium

Summary of the Safety and Health, and Regulatory Status of Red Lion Chem Tech's Products

All of the Red Lion Chem Tech Products are comprised of non-hazardous inorganic materials of known safety and effectiveness. Components of the Products are hereby referred to as the "Product" or the "Products" and referenced herein in this document.

The Health and Safety and Regulatory status of the Product is summarized in the following sections:

Section I: GHS/GRAS Ranking

Section II: FMO-FDA Additive

Section III: Kosher Certificate

Section IV: Household Products Database

Section V: Animal Feed Additive

Section VI: Safety and Health

Section VII: Pharmaceutical and Cosmeceutical Use

Section VIII: Environmental Regulations

Section IX: NIOSH

Section X: OSHA

Section XI: Contact Information

Section I: Global Harmonizing Committee

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) is a system for standardizing and harmonizing the classification and labeling of chemicals. It is a logical and comprehensive approach to (i) defining health, physical and environment hazards of chemicals, (ii) creating classification processes that use available data on chemicals for comparison with defined hazard criteria, and (iii) communicating hazard information, as well as protective measures, on labels. The GHS has assigned the Product a hazard rating of *non-hazardous*.

Furthermore the GHS has classified the Product under the designation of Generally Regarded As Safe (GRAS). A GRAS ranking is based on the consensus of scientists and chemical experts (such as National Institute of Occupational Safety and Health [NIOSH]; NLM; TOXLINE, RTECS; Hazardous Substances Database [HSDB]); medical experts (such as AMA, WHO); regulatory personnel from all Regulatory Agencies (such as OSHA); environmental experts (such as EPA, FIFRA, Substance Registration System); and Government Committees (such as Responsible Care Global Charter, REACH, Global Products Strategy [GPS], International Council of Chemical Associations (ICCA)).

To receive a GRAS rating, a product needs to be non-toxic, have no adverse health and safety issues and have a widespread history of use without incident.

Section II: FMO-FDA Food Additive Applications

The use of the Product in food applications has been cleared by the United States Food and Drug Administration (FDA), as both a direct additive and as a substance. The Product is permitted to be included in the manufacturing process of materials that come in direct contact with food in various production, manufacturing, packaging, preparation, transportation and holding operations.

The food additive of the Product may be safely used in food in accordance with specified conditions. [21 CFR 172.480; U.S. National Archives and Records Administration's Electronic Code of Federal Regulations. Available from, as of April 22, 2004:
<http://www.gpoaccess.gov/ecfr>]

Uses are divided into direct and indirect food additives. Direct additives are defined as ingredients that are included in food and are thus consumed. Indirect additives are defined as materials that come in contact with food. The summary information below lists the direct and indirect food additive applications for the Product cleared by the FDA. Pertinent sections can be found in Title 21 of the Code of Federal Regulations (CFR), which governs the use of items (additives) in foods. Please consult the specific CFR citation for complete information.

Direct Food Additive Applications:

- 21 C.F.R. 172.480 Principal Section, Free-Flow and Anti-Caking in Foods
- 21 C.F.R. 133.146(b) Anti-Caking in Grated Cheese
- 21 C.F.R. 160.105(a)(d) Anti-Caking in Dried Eggs
- 21 C.F.R. 160.185 Anti-Caking Agent in Dried Egg Yolks
- 21 C.F.R. 172.230(a) Microencapsulation of Flavoring Oils
- 21 C.F.R. 173.340(a) Defoamer Agents
- C.F.R. 73.1 Diluents in color additive mixtures for food use exempt from certification (Not more than 2 percent of the ink solids)
- 21 C.F.R. 73.575(a)(2) Titanium dioxide color additive mixtures; Product as a dispersing aid (not more than 2 percent total)

The FDA has cleared the use of the Product as a direct food additive at levels up to 2 percent by weight unless otherwise noted.

Indirect Food Additive Applications:

Adhesive Coatings & Components

- 21 C.F.R. 175.105 Adhesives
- 21 C.F.R. 175.300 Resinous and Polymeric Coatings
- 21 C.F.R. 175.320 Resinous and Polymeric Coating for Polyolefin Films
- 21 C.F.R. 175.350 Vinyl Acetate/Crotonic Acid Copolymer
- 21 C.F.R. 175.380 Xylene-Formaldehyde Resins
- 21 C.F.R. 175.390 Zinc Matrix Coatings

Paper & Paperboard Components

- 21 C.F.R. 176.170 Components of Paper and Paperboard on Contact with Aqueous and Fatty Foods
- 21 C.F.R. 176.180 Components of Paper and Paperboard in Contact with Dry Foods
- 21 C.F.R. 176.200 Defoaming Agents in Coatings
- 21 C.F.R. 176.210 Defoaming Agents Used in the Manufacture of Paper and Paperboard
- 21 C.F.R. 182.90 Substances Migrating to Food from Paper and Paperboard Products

Polymers

- 21 C.F.R. 177.1200 Cellophane
- 21 C.F.R. 177.1210 Closures with Sealing Gaskets for Food Containers
- 21 C.F.R. 177.1350 Ethylene-vinyl Acetate Copolymers
- 21 C.F.R. 177.1400 Hydroxyethyl Cellulose Film, Water-Insoluble
- 21 C.F.R. 177.1460 Melamine-formaldehyde Resins in Molded Articles
- 21 C.F.R. 177.2420 Polyester Resins, Cross-linked
- 21 C.F.R. 177.2600 Rubber Articles Intended for Repeated Use

Adjuvants and Product Aids

- 21 C.F.R. 178.3297 Colorants for Polymers
- 21 C.F.R. 178.3570 Lubricants with Incidental Food Contact

Section III: Kosher Certificate

COURT OF THE CHIEF RABBI BETH DIN, LONDON

בית דין צדק דק"ק לונדון והמדינה

Dayan Ch. Ehrentreu
Emeritus Rosh Beth Din & Consultant Dayan
Dayan M. Gelley Senior Daya.,
Dayan I. Binstock
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KASHRUT DIVISION
Rabbi J.D. Conway Director

KOSHER CERTIFICATE

Date

03.03.2011
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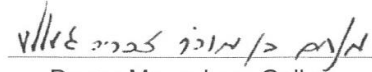
Certificate Number: 14716

The Product is Kosher certified by the London Beth Din Kashrut Division (KLBD) for year round use and when bearing the Kosher logo as certified herein.

This Kosher certificate is valid until **03 March 2012** and is subject to renewal at that time.


Rabbi Jeremy Conway




Dayan Menachem Gelley



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Section IV: Household Products Database

The Product is currently used in a variety of household consumer products and their specific use is summarized, in part, in the following Households Products Database.

The components of the Products are used in concentrations from 0.1% to 30% of Total Product on a mass basis.

Brand	Category	% of Total Product
AFM Safecoat Acrylacq	Arts & Crafts	<4
Rust Oleum Premium Textured Aerosol 7227 Rust	Arts & Crafts	5
Permatex No Touch Auto Glass Stripper	Auto Products	0.5-5
Silicone Adhesive Sealant Clear	Auto Products	5-10
Anti-Seize Lubricant-Old Product	Auto Products	0.1-1
Oatey All Purpose Lo VOC Cement-07/22/2002-Old Product	Home Maintenance	1-4
Oatey C PVC Cement-07/22/2002-Old Product	Home Maintenance	1-3
Zinsser Bulls Eye Polyurethane Satin (350 VOC)	Home Maintenance	
Oatey All Purpose Cement-10/01/2009	Home Maintenance	1-5
Oatey Medium PVC Clear Cement-10/01/2009	Home Maintenance	1-5
Oatey All Weather LO VOC Clear PVC Cement-11/11/2008	Home Maintenance	1-5
Oatey All Purpose LO VOC Cement-10/01/2009	Home Maintenance	1-4
Oatey LO VOC Medium PVC Gray Cement-11/12/2008	Home Maintenance	1-5
Oatey Heavy Duty LO VOC Clear Cement-11/01/2008	Home Maintenance	1-4
DAP Flexible Clear Sealant	Home Maintenance	
DAP Silicone Be Gone	Home Maintenance	10-30
Varathane Premium Gel Stain, Cabernet	Home Maintenance	5
Varathane Premium Gel Stain, Early American	Home Maintenance	5
Varathane Premium Gel Stain, Golden Pecan	Home Maintenance	5
Varathane Premium Gel Stain, Natural Finish	Home Maintenance	5
Varathane Premium Gel Stain, Red Mahogany	Home Maintenance	5

Oatey Flowguard Gold 1 Step Cement-Old Product	Home Maintenance	1-3
Oatey CPVC Orange Solvent Cement-Old Product	Home Maintenance	1-3
Duro Metal/Concrete Epoxy	Home Maintenance	1-4
Oatey All Purpose Cement-Old Product	Home Maintenance	1-2
Oatey CPVC Cement-Old Product	Home Maintenance	1-2
Oatey Heavy Duty Clear Solvent Cement-Old Product	Home Maintenance	3-4
U.S. Mix Fence Post Mix	Home Maintenance	2
U.S. Mix Multi Purpose Non Shrink Grout	Home Maintenance	2
U.S. Mix Paver Sand	Home Maintenance	2
U.S. Mix Self Leveling Underlayment	Home Maintenance	2
U.S. Mix Vinyl Concrete	Home Maintenance	2
Oatey All Purpose Cement-02/29/2000-Old Product	Home Maintenance	1-4
Oatey Pipe Seal-06/06/2000-Old Product	Home Maintenance	<2
Oatey All Weather Med. PVC Cement-07/22/2002-Old Product	Home Maintenance	1-2
Oatey Heavy Duty Clear Lo VOC Cement for PVC-07/22/2002-Old Product	Home Maintenance	1-3
Oatey Medium Gray Lo VOC PVC Cement-07/22/2002-Old Product	Home Maintenance	1-3
Oatey All Purpose Cement-07/22/2002-Old Product	Home Maintenance	1-4
Zinsser Bulls Eye Polyurethane Semigloss (350 VOC)	Home Maintenance	
Behr Oil-Based Polyurethane Semigloss, Clear 604-02/20/2009	Home Maintenance	1-5
Oatey Heavy Duty Clear Lo VOC Cement for PVC-10/01/2009	Home Maintenance	1-4
Oatey PVC Rain-R-Shine Clue Cement for PVC-10/01/2009	Home Maintenance	1-5
Oatey Heavy Duty CPVC Orange Cement-11/01/2009	Home Maintenance	1-5
Oatey Medium PVC Lo VOC Orange Cement-11/11/2008	Home Maintenance	1-5
Oatey Pipe Seal-06/10/2005	Home Maintenance	0-2
DAP Alex Plus Acrylic Latex Caulk Plus Silicone, Clear	Home Maintenance	1-5

DAP Kwik Seal Tub & Tile Adhesive Caulk, Clear	Home Maintenance	1-5
DAP Strongstik Instant Grab Adhesive	Home Maintenance	0.5-1.5
Varathane Premium Gel Stain, Dark Walnut	Home Maintenance	5
Varathane Premium Gel Stain, Golden Oak	Home Maintenance	5
Varathane Premium Gel Stain, Ipswich Pine	Home Maintenance	5
Varathane Premium Gel Stain, Traditional Cherry	Home Maintenance	5
Varathane Premium Gel Stain, Provincial	Home Maintenance	5
Hercules PVC Cement, Yellow Label	Home Maintenance	1-5
Oatey PVC Flexible Clear Cement	Home Maintenance	1-5
Oatey Medium PVC Cement-Old Product	Home Maintenance	1-3
Oatey Heavy Duty Clear Lo VOC Cement for PVC-Old Product	Home Maintenance	1-3
Oatey All Purpose Lo VOC Cement-Old Product	Home Maintenance	1-4
Oatey Rain R Shine PVC Cement-Old Product	Home Maintenance	1-3
Oatey All Weather Med. PVC Cement-Old Product	Home Maintenance	1-2
Oatey PVC Cement-Old Product	Home Maintenance	1-2
Rust Oleum Painters Touch, Frosted Glass Finish	Home Maintenance	5.0
U.S. Mix Glass Block Mortar-Old Product	Home Maintenance	2
U.S. Mix Multi Purpose Thinset Mortar	Home Maintenance	2
U.S. Mix All Purpose Gravel-Old Product	Home Maintenance	2
Oatey Heavy Duty Clear Solvent Cement-02/29/2000-Old Product	Home Maintenance	2-4
Oatey Flowguard Gold 1 Step Cement-12/30/2002	Home Maintenance	1-3
Loctite Extend Rust Neutralizer	Inside the Home	1-3
Elmers Probond Clear Household Cement	Inside the Home	1-5
Loctite 190501 Adhesive	Inside the Home	3-10
Naval Jelly Rust Dissolver, Original Brand	Inside the Home	0.1-1
U.S. Mix Play Sand	Landscape/yard	2
U.S. Mix Tube Sand	Landscape/yard	2

Cover Girl AquaSmooth Make-up, Classic Beige-11/01/2007	Personal Care	3-7
Cover Girl AquaSmooth Make-up, Creamy Beige-11/01/2007	Personal Care	3-7
Cover Girl AquaSmooth Make-up, Natural Beige-11/01/2007	Personal Care	3-7
Cover Girl AquaSmooth Make-up, Warm Beige-11/01/2007	Personal Care	3-7
Satin Care Shave Gel with Silk, Melon Splash	Personal Care	<0.5
Satin Care Shave Gel with Silk, Wild Berry	Personal Care	
3M Ultrathon Insect Repellent Lotion Sponge Applicator	Personal Care	1-5
Gillette for Women Satin Care Shave Gel, Sensitive Skin,Aloe&VitaminE with silk	Personal Care	<0.5
Arrid Extra Dry Invisible Solid	Personal Care	0.1-2.0
Cover Girl Smoothers Lipliner-11/01/2007	Personal Care	0.1-1
Cover Girl Aquasmooth Make-Up, Classic Tan SPF15-11/01/2007	Personal Care	3-7
Cover Girl Aquasmooth Make-Up, Medium Light-11/01/2007	Personal Care	3-7
Cover Girl Aquasmooth Make-Up, Soft Honey-11/01/2007	Personal Care	3-7
Herbal Essences Shimmery Nights Spray Gel	Personal Care	<0.5
Satin Care Shave Gel with Silk, Oceania	Personal Care	<0.5
Cover Girl Lash Blast Luxe Mascara	Personal Care	<0.5
Mentadent Dental Care Advance Whitening Toothpaste	Personal Care	1-5
Ortho Garden Disease Control Concentrate	Pesticides	
Super Ick Cure Powder-01/09/2006	Pet Care	1-5
General Cure Capsules-01/05/2006	Pet Care	1-5

Section V: Animal Feed Additive

As of the date of this statement, the Product has been approved for the following uses in animal feed:

21 CFR 573.940 permits the use of the Product as an anti-caking agent and/or grinding aid in an amount not to exceed 2% by weight of the finished feed;

21 CFR 582.1711 permits the use of the Product for use in anti-foam materials for animal feed; and,

21 CFR 584.700 permits the use of the Product in vitamin preparations for animal feed.

Section VI: Safety and Health Documentation by Suppliers

Part A: Toxicology

Experience over the past thirty years of manufacturing the Product shows not a single complaint case of lung fibrosis or loss of pulmonary functions due to product inhalation.

Tests with laboratory animals have given the following results:

Acute Oral Toxicity. The Product was administered by oral gavage to 10 albino rats at dose levels of 5 grams per kilogram of body weight. All animals survived the 14 day duration of the study.

Primary Dermal Irritation. The Product was evaluated for primary dermal irritation potential when applied under impervious bandages to clipped, intact, and abraded skin of albino rabbits. The Primary Irritation Index was calculated to be 0.44 on a scale of 0.00 to 8.00. The Product was considered inert.

Primary Eye Irritation. The Product was evaluated for primary eye irritation potential when instilled in the eyes of rabbits. The mean Primary Eye Irritation Scores for unwashed eyes were 1.0 and 0.3 on a scale of 0.0 to 110.0 after 24 and 48 hours, respectively, and 0.0 for the duration of the test. Scores for washed eyes were 0.0 throughout the 7 day test period. The Product was considered inert.

Acute Dust Inhalation (4 hr. Gravimetric). A group of 10 test animals (rats) were exposed to an atmosphere with a gravimetric concentration of 2.08 mg/l (nominal concentration 59 mg/l) of the Product for a four hour period followed by a 14 day observation period. No animals perished during the exposure or in the 14 day period after exposure. At necropsy, no gross lesions were observed.

When tested under the stated conditions, the LC-50 of the Product is greater than the gravimetric concentration of 2.08 mg/l or nominal concentration of 59 mg/l.

Mutagenicity Testing. The Product was evaluated in a battery of four standard tests for mutagenicity. The Product was found to be negative in all four tests.

Part B: Regulatory Status

The Product in Foods. The use of The Product has been approved by the United States Food and Drug Administration (F.D.A.) for many food applications as both a direct food additive at levels up to 2 percent by weight and as a substance allowed in the manufacturing of materials that come in direct contact with food in various producing, manufacturing, packing, preparing, transporting, and holding operations. Pertinent sections can be found in Title 21 Code of Federal Regulations, Part 172 Food Additives permitted for Direct Addition to Food for Human Consumption and Section 182.90

(Substances Generally Recognized as Safe (GRAS) in Paper and Paperboard Products used in Food Packaging).

Food Chemical Codex. The Product meets all of the requirements set forth by the Food Chemical Codex. Lot analysis is available upon request.

The Product in Pharmaceuticals and Cosmetics. The Product is produced in accordance with current good manufacturing practices appropriate for a pharmaceutical or cosmetic excipient. The Products generally have a long history of safe use as an inactive ingredient in a variety of pharmaceutical and cosmetic applications. As with any component of a pharmaceutical or cosmetic product, it is incumbent upon the manufacturer of the finished pharmaceutical or cosmetic product to determine the suitability of the Product as a component of the finished product.

Chemical Substance Inventories. The Product is listed in the Chemical Substance Inventories as follows:

SUBSTANCE INVENTORY LISTINGS
TSCA AND AICS EINECS MITI
(U.S. and Australia) (Europe) (Japan)

Registered Product: 1-548 (1-810)(2)

(1)The Chemical Abstract Science (C.A.S.), a division of the American Chemical Society, registered The Product. The Product is included in the Toxic Substance Control Act (TSCA) inventory.

(2)Initial MITI numbers refer to the Official Gazette Announcement while the numbers in parentheses refer to the Reference Number of Classification by Structure.

OSHA Hazard Communication Standard:

The Product is not considered a hazardous chemical under the United States Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR Sec. 1910.1200). All of the Product manufactured and sold in the United States is labeled in accordance with the requirements of the Hazard Communication Standard. Material Safety Data Sheets are available upon request.

Industry Recognized Exposure Concentration Levels:

The Product is a non-hazardous material and thus does not have a specifically assigned PEL or TLV. The Product is categorized under the heading of "Particulates Not Otherwise Classified (PNO)" by the American Conference of Governmental Industrial Hygienists (ACGIH), which has a total dust Threshold Limit Value-Time-Weighted Average (TLV-TWA) of 10 mg/m³

Section VII: Pharmaceutical and Cosmeceutical Use

Section A: Pharmaceutical Use

The Product is used in a variety of solid dosage forms as an excipient. Its anti-caking and compaction properties allow it to be used in oral medications employing both ethical and non-ethical drugs. Its usage has been found to be safe and effective at concentrations up to 40%.

Section B: Cosmeceutical Use

Applications

Toothpaste

The Product provides thixotropy to toothpaste formulations, thus improving processing. The addition of The Product to a toothpaste formulation will improve a toothpaste formulation's consistency. This provides a paste, which when applied to the brush, will maintain its form and separate from the tube sharply and without "stringiness."

Dental Powders

The Product is used in many commercial tooth powder formulations. It acts as an adsorbent for the flavoring oil and as a free flowing and anti-caking agent so the powder will run freely from the plastic squeeze dispenser. The Product also aids in holding the powder to a wet brush. The recommended level for anti-caking applications is 0.25 to 2 wt. % and for adsorbing flavors 20 to 40 wt. % based on the weight of the oil.

Sunscreen Products

Sunscreen products can be divided into two main groups, those that absorb UV energy due to their chemical nature and those that reflect UV energy. Reflectant sunscreens often contain inert mineral pigments. These provide good protection against UVA (i.e., wavelengths 315 to 400 nanometers) as well as UVB (280 to 315 nanometers) radiation. The Product can be used as an efficient gelling agent for both types of sunscreen gels and lotions.

Anti-perspirant (aerosol)

The use the Product keeps aerosol powders free flowing and prevents nozzle clogging. The addition of a small amount of the Product will form a "coating" over the larger particles, thus acting as tiny spacers to prevent the larger particles from re-agglomerating. This inhibits hard caking and maintains uniform flow of the anti-perspirant.

Anti-perspirant (solid)

The presence of the Product to solid (stick) anti-perspirant offers the formulator two benefits. First, the Product acts as a secondary binder, preventing the "bleeding" of liquids from the solid product. This is most beneficial in formulations which contain volatile silicone fluids. The second benefit is the Product's ability to act as a heat stabilizer. The addition of the Product prevents excessive softening at elevated temperatures.

Fragrances

In the past, plant extracts for use as natural fragrances have been limited to applications only in liquid products, such as bath oils, body and hand lotions, and shampoos. Laboratory studies have been performed creating a powdered plant extract by adsorbing the fragrance onto inert substrates. The Product is especially suited for this application due to its high surface area, small particle size, and chemical purity. The Product's high surface area physically adsorbs the fragrance converting it into a dry powder. The affinity of these oils to the Product slows down the release of the fragrance, thus allowing the formulator to control the release rate of the scent.

Nail Polish

The Product's development of a three-dimensional network in a nail polish will prevent the settling of other pigments in the system. Once the Product network forms, it supports the other pigment particles and prevents their migration to the bottom of the container. This action is useful for both shelf storage and in preventing stratification of pigments during application. Some materials are very prone to settling and cannot be completely suspended. However, they can be prevented from forming a hard cake on the bottom of the container. The Product will keep the sediment soft and easy to re-disperse by simple stirring or shaking.

Powders

Many powdered cosmetic products need to maintain their free flowing characteristics even in high humidity environments. The use of as little as 0.25 wt. % of the Product will prevent the powder particles from clumping and forming cakes. The small particle size of the Product will increase the friction between the larger powder particles to keep them free flowing. This is especially useful for such products as bath powders and crystals, talc powder, and after-bath dusting powders. The Product will help to maintain uniform consistency of facial powders as they are applied. The Product acts as a "slipping agent," allowing the product to slip or glide onto the skin. The Product will also adsorb any excess oil on the skin.

Lipstick

The Product controls softening in stick-type cosmetics, such as lipsticks. Unlike preparations based exclusively on waxes, those containing the Product resist continual softening with increasing temperature. This ability to control temperature-induced softening or thinning is useful in many products that are exposed to the heat of a beach or poolside in summer. Mascara which contains the Product will have greater resistance to temperature, thereby preventing melting or run-off after application. The Product can also be added to obtain the correct slip and feel of applied lipstick.

Makeup and Creams

The Product acts as a gelling or thixotropic agent in facial creams and makeup products. The addition of 1 to 3 wt. % produces soft cream consistencies. Gels and heavy pastes require the addition of 4 to 8 wt. % of the Product. The use of the Product for thickening or gelling will also provide two other benefits. The Product will act as an emulsifying aid, thus promoting the suspension of oils and fragrances. The Product will also suspend pigments or other inert fillers.

Hair Preparations

The Product provides thickening, improved suspension, and shelf stability to liquid and gel-like shampoos. The use of the Product as the thickening agent allows the formulator to create a clear gel product. Recommended levels of the Product for thickening are 3 to 5 wt. % for liquids

and 4 to 8 wt. % for gels. Powdered hair bleaches will remain free flowing with the addition of as little as 0.25 wt. % of the Product.

Section VIII: Environmental Regulations

FIFRA Requirements:

Tolerance exemptions for minimal risk active and inert ingredients:

Unless specifically excluded, residues resulting from the use of the following substances as either an inert or an active ingredient in a pesticide chemical formulation, including antimicrobial pesticide chemicals, are exempted from the requirement of a tolerance under FFDCA section 408, if such use is in accordance with good agricultural or manufacturing practices. The Product is included on this list. [40 CFR 180.950; U.S. National Archives and Records Administration's Electronic Code of Federal Regulations. Available from, as of November 10, 2003:

<http://www.gpoaccess.gov/ecfr>

Residues of the Product are exempted from the requirement of a tolerance when used as a flow control, anticaking, and carrier agent in accordance with good agricultural practices as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest.[40 CFR 180.1001(c) (7/1/92)]

As the federal pesticide law FIFRA directs, the U.S. Environmental Protection Agency (EPA) is conducting a comprehensive review of older pesticides to consider their health and environmental effects and make decisions about their future use. Under this pesticide reregistration program, the EPA examines health and safety data for pesticide active ingredients initially registered before November 1, 1984, and determines whether they are eligible for reregistration. In addition, all pesticides must meet the new safety standard of the Food Quality Protection Act of 1996. Pesticides for which the EPA had not issued Registration Standards prior to the effective date of FIFRA, as amended in 1988, were divided into three lists based upon their potential for human exposure and other factors, with List B containing pesticides of greater concern and List D pesticides of less concern. [USEPA/OPP; Status of Pesticides in Registration, Reregistration and Special Review p.334 (Spring, 1998) EPA 738-R-98-002]

The EPA conducted a review of the scientific data base and other relevant information supporting the reregistration of the Product and has determined that the data base is sufficient to conduct a reasonable risk assessment. In addition, the Agency has conducted a tolerance reassessment for the Product and its conclusions are discussed in Section IIC. The data available to the EPA support the conclusion that the currently registered uses of the Product will not result in unreasonable public health risks or effects to the environment. No further generic data are required. Accordingly, the EPA has determined that all products containing the Product as the active ingredients are eligible for reregistration and will be reregistered when appropriate labeling and/or Product-specific data are submitted and/or cited. Before reregistering each Product, the EPA is requiring Product-specific data to be submitted within eight months of the issuance of this document. After reviewing these data and the revised labels, the EPA will determine whether to reregister a Product based on whether or not the conditions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 3(c)(5) have been met. End use products containing the Product in combination with other active ingredients will not be

reregistered until those other active ingredients are determined to be eligible for reregistration.
[USEPA/Office of Pesticide Programs; Reregistration Eligibility Decision Document. September 1991. Available from, as of December 2, 2003:
<http://www.epa.gov/pesticides/reregistration/status.htm>]

Section IX: NIOSH

NIOSH Recommendations:

Recommended Exposure Limit: 10 Hr. Time-Weighted Avg: 6 mg/cu m. [NIOSH. NIOSH Pocket Guide to Chemical Hazards & Other Databases. U.S. Department of Health & Human Services, Public Health Service, Center for Disease Control & Prevention. HHS (NIOSH) Publication No. 2001-145 (CD-ROM) August 2001.]

Section X: OSHA

OSHA Standards:

The Personal Exposure Limit (PEL) for the Product is expressed by a formula that reduces the amount of dust to which a worker can be exposed as the percentage of the Product in the dust rises. When the total dust of Particulates Not Otherwise Regulated PEL of 15 mg/m³ Personal Protection Equipment (PPE) should be used. [OSHA General Industry Standard Table 1910.1000 Z-3 Table Z-3 Mineral Dusts]

Personal Protection Equipment, such as a mask or respirator should be used when the percent of solids is above 5.33%. This is the recommended practice according to the Red Lion Scientifics, LLC's Technical Bulletins for the Products.

Section XI: Contact Information

For any further information on Red Lion Scientifics, LLC's Products, or for an MSDS please contact Red Lion Scientifics at:

Red Lion Scientifics, LLC
11011 Via Frontera
Suite D
San Diego, CA 92127
Phone: 858-705-6698