



1. Identification

| 1. Identification | | | | |
|---------------------------------|--|----------------|--|--|
| Product identifier | NATUROX® PLUS DRY | | | |
| Other means of identification | | | | |
| Product code | 012190 | | | |
| Recommended use | Antioxidant | | | |
| Recommended restrictions | None known. | | | |
| Manufacturer/Importer/Supplier/ | Manufacturer/Importer/Supplier/Distributor information | | | |
| Manufacturer | | | | |
| Company name | Kemin Industries, Inc. | | | |
| Address | 2100 Maury Street | | | |
| | Des Moines, Iowa 50317 | | | |
| | United States | | | |
| Telephone | (515) 559-5100 | | | |
| Website | http://www.kemin.com/ | | | |
| E-mail | media@kemin.com | | | |
| Emergency phone number | CHEMTREC | 1-800-424-9300 | | |
| | | | | |

2. Hazard(s) identification

| Physical hazards | Not classified. | |
|-----------------------|-----------------------------------|------------|
| Health hazards | Serious eye damage/eye irritation | Category 2 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| | \mathbf{v} |
|--|--|
| Signal word | Warning |
| Hazard statement | Causes serious eye irritation. |
| Precautionary statement | |
| Prevention | Wash thoroughly after handling. Wear eye protection/face protection. |
| Response | 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 advice/attention. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | None. |
| | |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|------------------------|--------------------------|-------------|------------|
| Silicon Dioxide | | 112926-00-8 | 30 - < 40* |
| Citric Acid | | 77-92-9 | 20 - < 30* |
| Other components below | reportable levels | | 40 - < 50 |

*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 | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. |
| 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. |

5. Fire-fighting measures

| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
|---|---|
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Use water spray to cool unopened containers. |
| 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. 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 | 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. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. |
| | Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| - | Never return spills to original containers for re-use. 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 contact with eyes. 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 |
|--------------------------------------|--|------------------|
| Silicon Dioxide (CAS 112926-00-8) | TWA | 0.8 mg/m3 |
|) | | 20 mppcf |
| US. NIOSH: Pocket Guide | to Chemical Hazards | |
| Components | Туре | Value |
| Silicon Dioxide (CAS 112926-00-8) | TWA | 6 mg/m3 |
| Biological limit values | No biological exposure limits noted for the ingredient(s). | |
| Appropriate engineering controls | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station. | |
| ndividual protection measure | s, such as personal protective equipr | nent |
| Eye/face protection | Wear safety glasses with side shield | ls (or goggles). |
| Skin protection | | |
| Hand protection | Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. | |
| Other | Wear suitable protective clothing. | |
| Respiratory protection | Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. | |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. | |
| General hygiene considerations | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. | |
| 9. Physical and chemica | l properties | |
| Appearance | Powder. | |
| ··· | | |

| Appearance | Powder. | |
|--|--|--|
| Physical state | Solid. | |
| Form | Powder. | |
| Color | Off-white with Cream, Pink, or Tan hues. | |
| Odor | Herbal | |
| Odor threshold | Not available. | |
| рН | Not available. | |
| 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 explosive 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 | 35 - 40 lb/ft³ (561-641 kg/m3) |
| 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 | 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. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | Expected to be a low ingestion hazard. |
| Symptoms related to the physical, chemical and toxicological characteristics | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. |

Information on toxicological effects

Acute toxicity

| Components | Species | Test Results |
|---------------------------|-----------|---------------|
| Citric Acid (CAS 77-92-9) | | |
| <u>Acute</u> | | |
| Oral | | |
| LD50 | Mouse | 5040 mg/kg |
| | Rat | 6730 mg/kg |
| Silicon Dioxide (CAS 1129 | 926-00-8) | |
| Acute | | |
| Oral | | |
| LD50 | Mouse | > 15000 mg/kg |
| | Rat | > 22500 mg/kg |
| | | |

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

| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. |
|---------------------------|--|
| Serious eye damage/eye | Causes serious eye irritation. |

| Respiratory or skin sensitizatior | 1 | |
|---|---|---|
| Respiratory sensitization | Not a respiratory sensitizer. | |
| Skin sensitization | This product is not expected to | cause skin sensitization. |
| Germ cell mutagenicity | No data available to indicate province of the mutagenic or genotoxic. | roduct or any components present at greater than 0.1% are |
| Carcinogenicity | This product is not considered | to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |
| IARC Monographs. Overall I | Evaluation of Carcinogenicity | |
| Silicon Dioxide (CAS 112926-00-8) | | 3 Not classifiable as to carcinogenicity to humans. |
| OSHA Specifically Regulate | d Substances (29 CFR 1910.10 | 01-1050) |
| Not regulated. | | |
| US. National Toxicology Pro | ogram (NTP) Report on Carcino | ogens |
| Not listed. | | |
| Reproductive toxicity | This product is not expected to | cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure | Not classified. | |
| Specific target organ toxicity - repeated exposure | Not classified. | |
| Aspiration hazard | Not an aspiration hazard. | |
| Chronic effects | Prolonged inhalation may be h | armful. |

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. |
|-------------------------------|--|
| 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.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC CodeNot applicable.

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. Massachusetts RTK - Substance List Silicon Dioxide (CAS 112926-00-8) US. New Jersey Worker and Community Right-to-Know Act Silicon Dioxide (CAS 112926-00-8) US. Pennsylvania Worker and Community Right-to-Know Law Not listed. **US. Rhode Island RTK** Not regulated. US. California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. International Inventories Country(s) or region On inventory (yes/no)* Inventory name Australia Australian Inventory of Chemical Substances (AICS) Canada Domestic Substances List (DSL) Canada Non-Domestic Substances List (NDSL) China Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Europe Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Europe Japan Inventory of Existing and New Chemical Substances (ENCS) Korea Existing Chemicals List (ECL) New Zealand New Zealand Inventory Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Yes

Yes

No

Yes

Yes

No

No

No

Yes

Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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 | 05-25-2015 |
|----------------------|---|
| Revision date | 06-08-2016 |
| Version # | 06 |
| 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 | Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Precautions for safe handling Handling and storage: Conditions for safe storage, including any incompatibilities Exposure controls/personal protection: Eye/face protection Exposure controls/personal protection: Hand protection Exposure controls/personal protection: Respiratory protection Exposure controls/personal protection: PPE Symbols Toxicological information: Carcinogenicity Regulatory information: US federal regulations Other information, including date of preparation or last revision: Disclaimer Other information, including date of preparation or last revision: Further information |