



Micro Primer

MSDS Number: PC148112812

Revision Date: 11/28/12

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

NIC Industries, Inc
7050 6th Street
White City, OR 97503

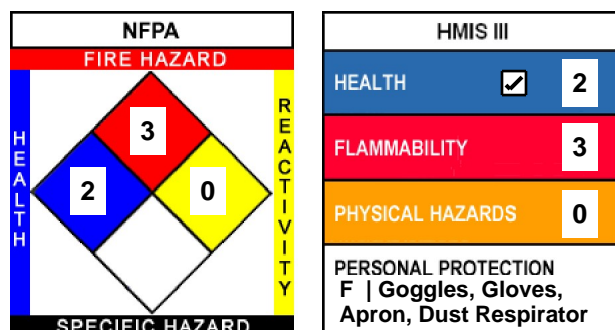
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Product Name: Micro Primer
Revision Date: 11/28/12
Version: 2.0
MSDS Number: PC148112812
Product Code: PC-148

2 HAZARDS IDENTIFICATION

Route of Entry: Inhalation, Ingestion, Skin Absorption, Eye Contact
Target Organs: Respiratory System, Reproductive System and Pulmonary System.
Inhalation: May cause irritation of the upper respiratory tract. Long term exposure or overexposure may cause drowsiness, dizziness, confusion or loss of coordination.
Skin: May cause moderate irritation.
Eye: May cause severe irritation.
Ingestion: May cause drowsiness, dizziness, confusion or loss of coordination. Repeat ingestion may cause internal injuries.

NFPA: Health = 2, Fire = 3, Reactivity = 0
HMIS III: H*2/F3/PH0



3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas # | Percentage | Chemical Name



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	70-90%	Proprietary Formulation
682-01-9	3-7%	Silicic acid (H ₄ SiO ₄), tetrapropyl ester
18765-38-3	3-7%	Silicic acid (H ₄ SiO ₄), tetrakis(2-butoxyethyl) ester
5593-70-4	3-7%	1-Butanol, titanium(4+) salt

4 FIRST AID MEASURES

- Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops, have trained person administer artificial respiration. Loosen tight clothing. Seek immediate medical attention.
- Skin Contact:** Remove contaminated clothing and shoes. Quickly and gently blot or bluish away excess chemical. Wash thoroughly with lukewarm water for at least 15 minutes. Wash clothing before reuse. Seek immediate medical attention.
- Eye Contact:** Immediately flush with lukewarm water for 15-20 minutes, occasionally lifting eyelids to ensure thorough rinsing. Do not attempt to remove contact lenses. Seek immediate medical attention.
- Ingestion:** Rinse mouth out and then drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs, have victim lean forward to reduce risk of aspiration. Seek immediate medical attention.

5 FIRE FIGHTING MEASURES

- Flash Point:** 80.6 oF (27 oC)
LEL: Not Available
UEL: Not Available

Extinguishing Media:
Carbon dioxide, alcohol foam or water spray.

Sensitivity of Static Charge:
Electrostatic charge may build up during handling and could ignite vapors. Grounding of equipment is recommended.

Vapors are heavier than air and may travel to a source of ignition and flash back. Use proper personal protective equipment. If fire occurs, isolate area, contain and eliminate fire, then dispose of debris in accordance with official regulations. Use water spray to keep fire exposed containers cool.

6 ACCIDENTAL RELEASE MEASURES

Keep all unnecessary personnel away, and isolate hazard area. Wear proper personal protective equipment. Do not touch or walk through spilled material. Approach spilled material from upwind. Ensure adequate ventilation and use proper personal protective equipment. Eliminate all sources of ignition. Contain liquids and prevent discharge into water sources, drains or sewers. Control or stop the loss of volatile material to the atmosphere. Do not apply water to the spill. Dike to contain and pump into drums for disposal. Cover with an inorganic absorbent (such as vermiculite, perlite, ground clay, or sand), sweep up and dispose of appropriately (spontaneous heating may occur). Clean contaminated area thoroughly. Final cleaning may require use of steam, solvents or detergents. Transfer to a container for disposal according to local/state/national regulations. Inform relevant authorities.

7 HANDLING AND STORAGE

- Handling Precautions:**
- Use with adequate ventilation.
 - Avoid breathing vapor, mist, dust and fumes.
 - Avoid bodily contact with material.
 - Wear appropriate personal protective equipment.
 - Wash thoroughly after handling, avoid contact with eyes.



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Storage Requirements:

No eating, drinking or smoking near areas where substance is handled, processed or stored.
Ground coating equipment at all times.
Do not allow substance or vapors to accumulate around machinery.
When exposed to water or humid air product evolves n-propyl alcohol, 2-butoxyethanol and n-butyl alcohol.
Store in cool, dry place to prevent caking.
Protect from breakage.
Keep away from all sources of ignition.
Avoid moisture and static electricity discharges.
Do not allow cross-contamination.
Keep tightly closed when not being used.
Label all containers appropriately.
Do not reuse containers.
Do not store near food or drinks.
Avoid excessive aging.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

General room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits. Assure ACGIH TWA and OSHA PEL limits of n-propyl alcohol (100 ppm, 200 ppm), 2-butoxyethanol (20 ppm, 50 ppm) and n-butyl alcohol (20 ppm, 100 ppm) are maintained.

Personal Protective Equip:

HMIS PP, F | Goggles, Chemical Resistant Gloves, Apron (protective industrial clothing recommended along with apron), Dust Respirator.

Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Use NIOSH approved respirator (particle mask) for vapors.

Employ proper hygienic measures after working with material and before eating, smoking or using the lavatory. Fully wash any contaminated clothing.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid

Physical State: Liquid

Odor: Slight Odor

Spec Grav./Density: 0.82

Viscosity: 1 cSt

Boiling Point: >100 oC

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STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Unknown.

Materials to Avoid: Oxidizing materials. Water, moisture or humid air can cause hazardous vapors to form as mentioned in Sections 7 and 8.

Hazardous Decomposition: May contain carbon oxides, silicon dioxide, metal oxides, formaldehyde and traces of incompletely burned carbon compounds.

Hazardous Polymerization: Will not occur.

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TOXICOLOGICAL INFORMATION



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Repeat exposure in rats to proprietary formulation resulted in what appears to be protoporphyrin accumulation in the liver at dose levels exceeding typical workplaces or consumer exposures. Relevance of this finding to humans is unknown.

12 ECOLOGICAL INFORMATION

Water hazard class 1 (self-assessment): Slightly hazardous for water and harmful to fish.
Avoid disposal in landfills and sewage systems. Product has not been tested for environmental effects.

13 DISPOSAL CONSIDERATIONS

This product is not regulated by the EPA. It is the waste generator's responsibility to determine if a particular waste is hazardous. Disposal should be made in accordance to federal, state, and local regulations. Dispose of in a licensed facility. Do not discharge into drains, surface waters or groundwater.

14 TRANSPORT INFORMATION

US DOT:

Proper Shipping Name: Tetrabutyl Titanate
Hazard Class: 3
UN Number: 1993
Packing Group: III
Hazard Label: Flammable Liquid

IATA:

Proper Shipping Name: Tetrabutyl Titanate
Hazard Class: 3
UN Number: 1993
Packing Group: III
Hazard Label: Flammable Liquid

15 REGULATORY INFORMATION

HCS Classification: Not Regulated
U.S. Federal Regulations: TSCA All components are listed or exempted
SARA 302/304/311/312/313: No products were found

California Proposition 65:

This product contains no chemicals known to the state of California to cause cancer and birth defects, or other reproductive harm.

Canadian DSL Inventory Status: All components of this product are listed on the Canadian DSL Inventory List, with the exception of the following: Silic acid butoxyethyl ester (listed on NDSL)

*Proprietary Formulation (70-90%)

*Silicic acid (H₄SiO₄), tetrapropyl ester (682019 3-7%) TSCA

*Silicic acid (H₄SiO₄), tetrakis(2-butoxyethyl) ester (18765383 3-7%) TSCA



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*1-Butanol, titanium(4+) salt (5593704 3-7%) TSCA

REGULATORY KEY DESCRIPTIONS

TSCA = Toxic Substances Control Act

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OTHER INFORMATION

U.S. Federal Regulations:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you (as it is your legal duty to) make all information in this Material Safety Data Sheet available to all your employees.

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