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Safety Data Sheet FG PLD III

1. IDENTIFICATION

Synonyms none
 CAS# see Part 3, below
 Material Use laundry powder for food processing facilities

IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053

2. HAZARD IDENTIFICATION

GHS Class (Category)	<i>acute oral (4)</i>	<i>skin corrosive (1)</i>	<i>STOT (3)</i>	<i>aquatic, chronic (4)</i>
Signal Words	WARNING	DANGER	WARNING	<i>no Signal Word</i>
Hazard Statements	<i>harmful if swallowed (H302)</i>	<i>causes severe skin burns & eye damage (H314)</i>	<i>may cause respiratory tract irritation (H335)</i>	<i>may cause long-lasting harmful effects to aquatic life (H413)</i>



GHS Precautionary Statements for Labeling

P262 Do not get in eyes, on skin or on clothing.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves of rubber or nitrile.
 P273 Avoid release to the environment.
 P391 Collect spillage.
 P313 & P333 If skin irritation or rash occurs, get medical advice/attention.
 P305, P351, P338 If in eyes, rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m ³	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ ppm INHALATION
Sodium Metasilicate (<i>pentahydrate</i>)	6834-92-0	40-60%	not listed	850	not known	not known
Sodium Tripolyphosphate	7758-29-4	20-30%	not listed	3100	>4640	not known
Sodium Carbonate	497-19-8	10-20%	not listed	4090	>2000	not known
Sodium Hydroxide	1310-73-2	5-10%	2	over 500	not known	not known
Sodium Alkylbenzene Sulfonic Acid	68081-81-2	1-5%	not listed	>1080	>2000	310mg/m ³
Nonionic Surfactant (NP-9)	on request	1-5%	not listed	>2000	not known	not known

NOTE: Two other, non-toxic, components are present at 0.2% or less.

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4. FIRST AID

- SKIN: Wash with plenty of water. Remove contaminated clothing and do not reuse until laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.
- EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if irritation occurs.
- INHALATION: Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.
- INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

5. FLAMMABILITY & FIRE-FIGHTING

- | | |
|--------------------------|---|
| Flash Point | cannot burn |
| Autoignition Temperature | cannot burn |
| Flammable Limits | cannot burn |
| Combustion Products | oxides of carbon, sulphur and nitrogen |
| Firefighting Precautions | as for materials sustaining fire; firefighters must wear SCBA |
| Static Discharge | cannot accumulate a static charge |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|-----------------|---|
| Leak Precaution | not applicable – <i>solid material</i> |
| Handling Spill | sweep, shovel & store in closed containers for disposal |

7. HANDLING & STORAGE

Keep dry. Never cut, drill, weld or grind on or near this container, whether empty or full. Avoid generating or breathing product dust. If dust forms in use, install adequate ventilation to clear workplace air. Strongly alkaline material; may cause skin burns if contact with moist skin occurs. Avoid all contact with skin & wash work clothes frequently. If dust formation is possible, wear appropriate resistant clothing to prevent skin contact. An eye bath & safety shower must be available near the workplace.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Sodium Hydroxide:

- | | | | |
|-------------|--|------------|------------|
| ACGIH TLV | 2mg/m ³ | ACGIH STEL | not listed |
| OSHA PEL | 2mg/m ³ | OSHA STEL | not listed |
| Ventilation | no special mechanical ventilation required; if dust formation is possible install appropriate exhaust ventilation to control dust; if dusting is likely to be of short duration, wear a respiratory with a dust filter | | |
| Hands | wear rubber or nitrile gloves – <i>other types also protect; always confirm suitability with supplier</i> | | |
| Eyes | safety glasses with side shields or chemical goggles – <i>always protect eyes!</i> | | |
| Clothing | if dust formation is possible wear long-sleeved overalls with elastic wrist bands and ankle bands to prevent dust entry; wear a hat and face shield; take precautions to avoid skin contact | | |

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9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	white, odorless powder
Vapor Pressure	not known – <i>ingredients do not form a vapor</i>
Evaporation Rate (<i>Butyl Acetate = 1</i>)	not known – <i>no volatile ingredients</i>
Vapor Density (air = 1)	not known – <i>ingredients do not form a vapor</i>
Boiling Point	not known – <i>ingredients decompose without boiling</i>
Melting Point	not known
Density	approx.. 2.6; <i>Bulk Density may be considerably lower due to air entrainment</i>
Water Solubility	not known – <i>highly soluble</i>
Viscosity	not applicable – <i>solid material</i>
pH	>14 – <i>strongly alkaline</i>

10. REACTIVITY

Dangerously Reactive With	strong acids
Also Reactive With	not known
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	no decomposition trigger known
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	corrosive if skin is moist; product may collect moisture from air to become corrosive if not removed
Skin Absorption	slight; toxic effects unlikely by this route
Eye Contact	corrosive to eyes; permanent damage likely
Inhalation	product dust is likely to irritate respiratory system causing wheezing & coughing
Ingestion	corrosive to mouth, throat & stomach – <i>ingestion is not a route of industrial exposure</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated contact with dust may cause dermatitis by removing protective skin oils
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known to be a tumorigen in humans or animals
Reproductive Effect	no known effect on humans or animals
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known
Calculated LD ₅₀ (oral)	1140mg/kg (rat)
Calculated LD ₅₀ (skin)	6130 – <i>insufficient data for confidence</i>
LC ₅₀ (inhalation)	<i>insufficient data to calculate</i>

12. ECOLOGICAL INFORMATION

Sodium Metasilicate pentahydrate:

Bioaccumulation	not a bioaccumulator
Biodegradation	inorganic product – does not biodegrade
Abiotic Degradation	dilutes readily in the environment; combines with metal ions to form insoluble calcium, aluminum, magnesium & iron silicates similar to naturally occurring silicates
Mobility in soil, water	water soluble; moves readily in soil and water
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	365mg/liter (<i>Brachydanio rerio</i>), 4037mg/liter (<i>Gambusia affinis</i>)
EC ₅₀ (Crustacea, 96hr)	376mg/liter (<i>Daphnia magna</i>), 1100mg/liter (<i>Lymnia sp.</i>), 278mg/liter (<i>Hyallela sp.</i>)
EC ₅₀ (Algae)	no data
EC ₀ (Bacteria)	>1740mg/liter (<i>Pseudomonas putida</i>) – <i>this is an LC₀ – no inhibition at this dose</i>

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12. ECOLOGICAL INFORMATION, cont'd

Sodium Tripolyphosphate:

Bioaccumulation	cannot bioaccumulate
Biodegradation	cannot biodegrade; plants use phosphate as a fertilizer, removing it from the environment
Abiotic Degradation	gradual (faster in acidic medium) hydrolysis to orthophosphate (coupled to various metallic ions)
Mobility in soil, water	water soluble & may move readily through soil & the water column; <i>the phosphate ion precipitates in the presence of calcium or magnesium ions, so may not move far</i>

Aquatic Toxicity

LC ₅₀ (Fish, 48hr)	1600mg/liter (Leuciscus idus)
EC ₅₀ (Crustacea, 50hr)	1089mg/liter (Daphnia magna)
EC ₅₀ (Algae)	not toxic to aquatic life – <i>promotes algal blooms on surface water, eventually causing eutrophication</i>
EC ₅₀ (Bacteria)	1000mg/liter (<i>activated sludge, domestic</i>)

Sodium Carbonate:

Bioaccumulation	not a bioaccumulator
Biodegradation	inorganic material, cannot biodegrade
Abiotic Degradation	reacts with atmospheric CO ₂ neutralizing gradually to sodium bicarbonate
Mobility in soil, water	water soluble; moves readily in soil and water

Aquatic Toxicity

LC ₅₀ (Fish, 96hr)	740mg/liter (Gambusia affinis), 300 & 320mg/liter (Lepomis macrochirus)
EC ₅₀ (Crustacea, 24hr)	265 & 565mg/liter (Daphnia magna), 600mg/liter (Culex sp.)
EC ₅₀ (Algae)	137, 242 & 1050mg/liter (Nitzschia sp.)
EC ₅₀ (Bacteria)	not known – <i>no data</i>

Sodium Hydroxide:

Bioaccumulation	not a bioaccumulator
Biodegradation	inorganic product – cannot biodegrade
Abiotic Degradation	dilutes readily in surface water, neutralizing with dissolved CO ₂ to sodium carbonate; if calcium or magnesium ions are present, insoluble & immobile carbonates precipitate.
Mobility in soil, water	water soluble; moves readily in soil and water, <i>but see above</i>

Aquatic Toxicity

LC ₅₀ (Fish 96 hr)	125mg/liter (Gambusia affinis), 45mg/liter (Oncorhynchus mykiss) – <i>lethal due to alkalinity</i>
LC ₁₀₀ (Crustacea, 48hr)	100-150mg/liter (Daphnia magna); 125-1000mg/liter (freshwater insect larvae)
EC ₅₀ (Algae)	<i>no information</i>
EC ₅₀ (Bacteria)	<i>no information</i>

NOTE: *Lethal pH for freshwater fish is pH= 9. At this pH damage occurs to their mucus coating & their gills.*

Sodium Alkylbenzene Sulfonic Acid:

Bioaccumulation	does not bioaccumulate ¹
Biodegradation	readily biodegradable; 69% to 90% in 28 days (<i>various linear benzene sulfonates tested</i>) ¹
Abiotic Degradation	not known
Mobility in soil, water	water soluble; moves readily in soil and the water column
Aquatic Toxicity	
LC ₅₀ (Fish, 96 hr)	2.9-13mg/liter (<i>various species</i>) ¹
EC ₅₀ (Crustacea, 48 hr)	1.62mg/liter (Daphnia magna) ¹
EC ₅₀ (Algae, 72 hr)	29mg/liter (Selenastrum capricornutum) ¹

Nonionic Surfactant:

Bioaccumulation	surfactant does not bioaccumulate; <i>breakdown product, unethoxylated nonylphenol may bioaccumulate</i>
Biodegradation	biodegrades in the presence of oxygen; 34% biodegradation in 20 days yielding di- and mono-ethoxylate; <i>however, these latter compounds resist further biodegradation (below)</i>
Abiotic Degradation	not known
Mobility in soil, water	sufficiently water soluble to move readily through soil and the water column

Aquatic Toxicity

LC ₅₀ (Fish, 96 hr)	2.1-2.6mg/liter (Pimephelas promelas), 13.9-19.5mg/liter (Poecilia reticulata – 48hr)
LC ₅₀ (Crustacea, 48hr)	3.8-6.2 & 18.2mg/liter (Daphnia magna), 20.9mg/liter (Gammarus pulex)
EC ₅₀ (Algae, 96hr)	15mg/liter (Lemna minor), 7mg/liter (Scenedesmus quadricauda)

NOTE: The Nonylphenol Ethoxylates biodegrade to estrogenic hormone mimics & may lead to reproductive failure in shore birds, amphibia & fish.

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13. DISPOSAL CONSIDERATIONS

- Waste Disposal **do not flush to sewer undiluted**; incinerate in approved facility with flue gas monitoring & scrubbing, mix with a suitable flammable waste before incineration
- Containers **Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.
Pails must be vented and thoroughly dried prior to crushing and recycling.
IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years.
Warning: never cut, drill, weld or grind on or near this container, even if empty.

14. TRANSPORT INFORMATION

USA 49 CFR & Canada/International TDG

Product Identification Number

Shipping Name

Classification

Marine Pollution

ERAP Required

UN – 3262

Corrosive solid, basic, inorganic, N.O.S.
(sodium hydroxide)

Class 8; Packing Group III
not a marine pollutant

No



15. REGULATIONS

Canada DSL	on inventory
U.S.A. TSCA	on inventory
Europe EINECS	on inventory

16. OTHER INFORMATION

Date of Preparation May 2015

Date of Revision -

Prepared for Tomco-Harwel, by **Peter Burszty**n

With data from the Registry of Toxic Effects of Chemical Substances (RTECS), Hazardous Substance Data Base (HSDB), Cheminfo (CCOHS), OSHA, IUCLID Datasheets (European Chemical Substance Information System - ESIS), & others sources (below if used), as required/available

(1) OECD SIDS Initial Assessment Report on "Linear Alkylbenzene Sulfonates", Paris, April 2005:

<http://webnet.oecd.org/hpv/ui/handler.axd?id=5b837fb0-350c-4742-914e-5f6513df120a>

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