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Safety Data Sheet SC Five Speed

1. IDENTIFICATION

Synonyms none
 CAS# see listing in Part 3
 Material Use neutral floor cleaner

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

2. HAZARD IDENTIFICATION

GHS Class eye irritant
 (Category) (2A)
 Signal Words **WARNING**

Hazard Statements causes serious eye irritation (H319)



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 eye protection, and protective gloves of natural rubber.

3. COMPOSITION

| | CAS NUMBER | % | TLV ppm / mg/m ³ | LD ₅₀ (mg/kg) ORAL | LD ₅₀ (mg/kg) SKIN | LC ₅₀ ppm INHALATION |
|-----------------------------------|---------------|--------|-----------------------------|-------------------------------|-------------------------------|---------------------------------|
| Potassium Salt (soap) of Tall Oil | none, mixture | 10-20% | not listed | not known | not toxic | not toxic |
| Sodium Polyacrylate | 9003-04-7 | 1-5% | not listed | 40,000 | not toxic | not toxic |
| Sodium Tripolyphosphate | 7758-29-4 | 1-5% | not listed | 3100 | >4640 | not known |
| Glycol Ether DPM | 34590-94-8 | 1-5% | 100/605 (skin) | 5130 | >13,000 | above 500 |
| Propylene Glycol | 57-55-6 | 1-5% | not listed | >14,800 | 20,800 | not known |
| Water | 7732-18-5 | ~80% | not toxic | 90,000 | not toxic | not toxic |

NOTE: A trace amount of Potassium Hydroxide is present, left over from the saponification (soap-making) process. Several other components are either present at below 0.1%, or are non-toxic and present at below 1%.

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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 if there is any irritation.
- 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 | carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments |
| Firefighting Precautions | as for materials sustaining fire; firefighters must wear SCBA |
| Static Discharge | cannot accumulate a static charge |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|-----------------|--|
| Leak Precaution | dike to control spillage and prevent environmental contamination |
| Handling Spill | ventilate contaminated area; recover free liquid with explosion-proof pumps; absorb residue on an inert sorbent, pick up using non-sparking plastic or aluminium shovel, & store in closed containers for disposal |

7. HANDLING & STORAGE

Store and use away from oxidizing agents. Never drill, weld or grind on or near this container, whether empty or full. Always replace drum, pail or IBC cap prior to moving the container.

Avoid generating or breathing product vapor or mist. If mist or vapor form in use, install adequate ventilation to clear workplace air. Avoid prolonged contact with skin & wash work clothes frequently. An eye bath should be available near the workplace.

8. EXPOSURE CONTROL & PERSONAL PROTECTION***Glycol Ether DPM:***

- | | | | |
|-------------|---|------------|--------------------------------------|
| ACGIH TLV | 100ppm / 606mg/m ³ (skin) | ACGIH STEL | 150ppm / 908mg/m ³ (skin) |
| OSHA PEL | 100ppm / 600mg/m ³ (skin) | OSHA STEL | 150ppm / 900mg/m ³ (skin) |
| Ventilation | no special mechanical ventilation required | | |
| Hands | natural rubber gloves – <i>other materials also protect; always confirm suitability with supplier</i> | | |
| Eyes | safety glasses with side shields or chemical goggles – <i>always protect eyes!</i> | | |
| Clothing | no special protective clothing required | | |

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Odor & Appearance | clear, red, viscous liquid with a sassafras odor |
| Odor Threshold | not known |
| Vapor Pressure | as for water |
| Evaporation Rate (<i>Butyl Acetate = 1</i>) | as for water |
| Vapor Density (air = 1) | 0.6 (<i>water</i>), 2.5 (<i>propylene glycol</i>), 5.1 (<i>DPM</i>) |
| Boiling Point | above 100°C / 212°F |
| Freezing Point | below 0°C / 32°F |
| Specific Gravity | 1.048 to 1.064 (20/20°C) |
| Water Solubility | complete |
| Log P _{o/w} (<i>Octanol/H₂O Partition Coefficient</i>) | not known |
| Viscosity | not known – <i>viscous liquid</i> |
| pH | 8.0 to 9.0 – <i>slightly alkaline</i> |

10. REACTIVITY

| | |
|---------------------------|---|
| Dangerously Reactive With | none known |
| Also Reactive With | oxidizing agents, strong acids |
| Chemical Stability | stable; will not polymerize |
| Decomposes in Presence of | strong acids |
| Decomposition Products | none apart from Hazardous Combustion Products |
| Mechanical Impact | not sensitive |

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

| | |
|-------------------------------------|--|
| Skin Contact | irritating if contact is very prolonged – <i>caused by removal of natural protective skin oils</i> |
| Skin Absorption | yes, slowly; toxic effects unlikely by this route |
| Eye Contact | may be severely irritating if not removed promptly (<i>as would any soap</i>) |
| Inhalation | product mist may irritate respiratory system |
| Ingestion | irritating to mouth, throat & stomach; not a route of industrial exposure |
| Calculated LD ₅₀ (oral) | 33,800mg/kg (rat) |
| Calculated LD ₅₀ (skin) | <i>insufficient information to calculate</i> |
| Calc. LC ₅₀ (inhalation) | <i>insufficient information to calculate</i> |

ii. CHRONIC EXPOSURE

| | |
|----------------------|---|
| General | prolonged or repeated exposure may cause dermatitis <i>through removal of natural skin oils</i> |
| Sensitizing | no component is a sensitizer |
| Carcinogen/Tumorigen | no component is known to be a tumorigen or a carcinogen in humans or animals |
| Reproductive Effect | no component is known to affect reproduction of humans or animals |
| Mutagen | contains no known mutagens or teratogens humans or animals |
| Synergistic With | not known |

12. ECOLOGICAL INFORMATION

Potassium Soap or Tall Oil:

| | |
|-------------------------|---|
| Bioaccumulation | readily metabolized and will not bioaccumulate |
| Biodegradation | biodegrades readily & rapidly in the presence oxygen; <i>rate not known</i> |
| Abiotic Degradation | not known |
| Mobility in soil, water | water soluble; moves readily through soil & the water column |
| Aquatic Toxicity | <i>aquatic toxicity values are not known, but believed to be very low</i> |

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12. ECOLOGICAL INFORMATION, cont'd**Sodium Polyacrylate:**

| | |
|-------------------------|--|
| Bioaccumulation | poorly absorbed and water soluble; will not bioaccumulate |
| Biodegradation | biodegrades slowly & incompletely; rate not known |
| Abiotic Degradation | not known |
| Mobility in soil, water | water soluble but, readily precipitated on contact with magnesium or calcium ions in soil or water |

Aquatic Toxicity

| | |
|------------------------------------|--|
| LC ₅₀ (Fish 96 hr) | 56,000mg/liter (<i>species of fish not given</i>) ¹ |
| LC ₅₀ (Crustacea, 48hr) | 6000mg/liter (<i>Daphnia magna</i>) ¹ |
| EC ₅₀ (Algae, 96hr) | not known |
| LC ₅₀ (Microorganisms) | not known |

Sodium Tripolyphosphate:

| | |
|-------------------------|--|
| Bioaccumulation | cannot bioaccumulate |
| Biodegradation | cannot biodegrade; plants will use it as a fertilizer (<i>phosphate ion</i>), 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 and the water column; <i>note that the phosphate ion precipitates in the presence of calcium or magnesium ions, so it may not move far</i> |
| Environmental | not toxic to marine life but promotes algal blooms on surface water & eventual eutrophication |

Aquatic Toxicity

| | |
|------------------------------------|--|
| LC ₅₀ (Fish, 48hr) | 1600mg/liter (<i>Leuciscus idus</i>) |
| EC ₅₀ (Crustacea, 50hr) | 1089mg/liter (<i>Daphnia magna</i>) |
| EC ₅₀ (Bacteria) | 1000mg/liter (<i>activated sludge, domestic</i>) |

Glycol Ether DPM:

| | |
|-------------------------|--|
| Bioaccumulation | not a bioaccumulator due to high water solubility and rapid rate of elimination/metabolism |
| Biodegradation | biodegrades readily in the presence of oxygen; var. rates reported from 93% in 13d to 34% in 28d |
| Abiotic Degradation | direct photolysis is reported to cause destruction with a ½-life of 3-4 hours |
| Mobility in soil, water | water soluble; moves readily in soil and water |

Aquatic Toxicity

| | |
|------------------------------------|---|
| LC ₅₀ (Fish, 96hr) | 10,000mg/liter (<i>Pimephales promelas</i>), |
| LC ₅₀ (Crustacea, 48hr) | above 1000mg/liter (<i>Crangon crangon</i> , 96hr), 1920mg/liter (<i>Daphnia magna</i>) |
| EC ₅₀ (Algæ) | no data available |
| EC ₁₀ (Bacteria) | 4168mg/liter (<i>Pseudomonas putida</i>) – <i>this is an EC₁₀ not an EC₅₀</i> |

Propylene Glycol:

| | |
|-------------------------|---|
| Bioaccumulation | propylene glycol is not a bioaccumulator |
| Biodegradation | biodegrades readily & rapidly in the presence of oxygen; 55-75% in 5 days, 78-84% in 20 days; also 99% in 1-2 days (2 tests) – rapid biodegradation means no Chronic Aquatic Toxicity testing required |
| Abiotic Degradation | reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 32hours |
| Mobility in soil, water | water soluble; moves readily in soil and water |

Aquatic Toxicity

| | |
|------------------------------------|--|
| LC ₅₀ (Fish, 96hr) | 23,800mg/liter (<i>Cyprinodon variegatus</i>), 51,600mg/liter (<i>Oncorhynchus mykiss</i>), 51,400 & 54,650mg/liter (<i>Pimephelas promelas</i>) |
| EC ₅₀ (Crustacea, 48hr) | 34,400 & 43,500mg/liter (<i>Daphnia magna</i>), 10,000mg/liter (<i>Artemia salina</i> , 24hr) |
| EC ₅₀ (Algae) | 19,000mg/liter (<i>Selenastrum capricornutum</i>), 19,100mg/liter (<i>Skeletonema costatum</i>) |
| NOAEC (Bacteria) | 20,000mg/liter – <i>NOAEC = No Observed Adverse Effect Concentration</i> |

13. DISPOSAL CONSIDERATIONS

| | |
|----------------|---|
| Waste Disposal | do not flush to sewer ; local regulations may allow disposal of this non-hazardous material in landfill; alternatively, biological destruction is an effective option for this biodegradable material |
| 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. <i>Warning: never cut, drill, weld or grind on or near this container, even if empty.</i> |

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14. TRANSPORT INFORMATION**USA 49 CFR & Canada/International TDG**

Product Identification Number

Shipping Name

Classification

Marine Pollution**ERAP Required**

UN – not regulated for transport

not regulated for transport

not regulated for transport

*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****August 2014****Date of Revision**

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Prepared for Tomco-Harwel, by **Peter Bursztyn***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) USA FDA Environmental Assessment, Sodium Polyacrylate:**<http://www.fda.gov/downloads/Food/FoodIngredientsPackaging/EnvironmentalDecisions/UCM243558.pdf>***last page of SDS*****PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.****EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053**