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Safety Data Sheet Snowy Special

1. IDENTIFICATION

Synonyms none
 CAS# see Part 3, below
 Material Use laundry detergent

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

2. HAZARD IDENTIFICATION

GHS Class (Category)	<i>skin corrosive (1)</i>	<i>STOT (3)</i>	<i>aquatic, chronic (4)</i>	<i>carcinogen (2)</i>	<i>reproduction (1B)</i>
Signal Words	DANGER	WARNING	no Signal Word	WARNING	DANGER
Hazard Statements	<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>	<i>suspected of causing cancer (H351)</i>	<i>may damage fertility (male) only on ingestion (H360)</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 and clothing of leather.
 P273 Avoid release to the environment.
 P391 Collect spillage.
 P313 & P333 If skin irritation or rash occurs, get medical advice/attention.

3. COMPOSITION

	CAS NUMBER	%	TLV mg/m ³	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ mg/m ³ INHALATION
Sodium Carbonate	497-19-8	30%	not listed	4090	>2000	not known
Sodium Sulfate	7757-82-6	18.5%	not listed	5990	not known	not known
Sodium Tripolyphosphate	7758-29-4	15%	not listed	3100	>4640	not known
Sodium Metasilicate (pentahydrate)	6834-92-0	10%	not listed	850	not known	not known
Tetrasodium Pyrophosphate	7722-88-5	10%	5	2980	7940	580
Sodium Perborate	7632-04-4	10%	2	1990	>2000	1165
Nonionic Surfactant (NP-9)	on request	4%	not listed	>2000	not known	not known
Sodium Alkylbenzene Sulfonic Acid	68081-81-2	2%	not listed	>1080	>2000	310
Polyvinyl Pyrrolidone	9003-39-8	0.15%	not listed	40,000	>10,000	not known
Optical Brightener (stilbene derivative)	not available	0.2%	not listed	>10,000	>10,000	not known

NOTE: Two ingredients (color & scent) are present at well below 0.1%.

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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 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, phosphorous 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 – *solid material*
- 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. Alkaline material may cause skin burns if contact is prolonged. Avoid contact with skin & wash work clothes frequently. An eye bath should be available near the workplace.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Tetrasodium Pyrophosphate

- ACGIH TLV 5mg/m³ ACGIH STEL not listed
- OSHA PEL 5mg/m³ OSHA STEL not listed

Sodium Perborate:

- ACGIH TLV 2mg/m³ (*borate compounds, inorganic*) ACGIH STEL 6mg/m³ (*borate compounds, inorganic*)
- OSHA PEL not listed OSHA STEL not listed

- Ventilation no special mechanical ventilation required
- Hands wear leather gloves – *other types also protect; always confirm suitability with supplier*
- Eyes safety glasses with side shields or chemical goggles – *always protect eyes!*
- Clothing no special protective clothing required

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9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	blue solid (granules or flakes) with "spring" fragrance
Odor Threshold	not known
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>
Freezing Point	not known
Density	2.6
Water Solubility	not known – <i>highly soluble</i>
Viscosity	not applicable – <i>solid material</i>
pH	pH = 11.0 – <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	not known
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	irritating to skin; corrosive if skin is moist & not washed promptly
Skin Absorption	slight; toxic effects unlikely by this route
Eye Contact	severely irritating, corrosive if not removed promptly; may damage eyes
Inhalation	product dust is likely to irritate respiratory system
Ingestion	irritating to mouth, throat & stomach; may be corrosive to mouth & throat – <i>ingestion is not a route of industrial exposure</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure may cause skin cracking & dermatitis
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known to be a tumorigen; one minor ingredient (0.2%) is an animal carcinogen (IARC A3)
Reproductive Effect	no known effect on humans; sodium perborate is toxic to reproduction in male rats on oral dosing, <i>This route of administration is not relevant to industrial exposure.</i>
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known
Calculated LD ₅₀ (oral)	2545mg/kg (rat)
Calculated LD ₅₀ (skin)	3730mg/kg (rabbit) – <i>based on incomplete data</i>
LC ₅₀ (inhalation)	not known

12. ECOLOGICAL INFORMATION

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

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

Bioaccumulation	cannot bioaccumulate
Biodegradation	inorganic substance; cannot biodegrade
Abiotic Degradation	does not undergo abiotic degradation in air or water
Mobility in soil, water	water soluble; moves readily through soil & the water column
Aquatic Toxicity	<i>Aspergillus is the only species for which an aquatic toxicity is published</i>
EC ₅₀ (Fungi, 40hr)	80mg/litre (Aspergillus sp)

Sodium Metasilicate pentahydrate:

Bioaccumulation	not a bioaccumulator
Biodegradation	inorganic product – does not biodegrade
Abiotic Degradation	water-soluble substance, 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/litre (Brachydanio rerio), 4037mg/litre (Gambusia affinis)
EC ₅₀ (Crustacea, 96hr)	376mg/litre (Daphnia magna), 1100mg/litre (Lymnia sp.), 278mg/litre (Hyallela sp.)
EC ₅₀ (Algae)	no data
EC ₀ (Bacteria)	>1740mg/litre (Pseudomonas putida) – <i>this is an LC₀ – no inhibition at this dose</i>

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

Tetrasodium Pyrophosphate:

Bioaccumulation	water soluble cannot bioaccumulate
Biodegradation	inorganic substance – does not biodegrade
Abiotic Degradation	hydrolyses in water; estimated ½-life of 1.8 days
Mobility in soil, water	water soluble; moves readily through soil & the water column
Aquatic Toxicity	
LC ₅₀ (Fish 96 hr)	>100mg/litre (Oncorhynchus mykiss)
LC ₅₀ (Crustacea, 48hr)	15mg/litre (Crassostrea virginica), >100mg/litre (Daphnia magna)
EC ₅₀ (Algae, 96hr)	>100mg/litre (Desmodesmus subspicatus)
NOEC (Microorganisms)	>1000mg/litre (<i>domestic sewage sludge</i>)

Sodium Perborate:

Bioaccumulation	not a bioaccumulator ²
Biodegradation	biodegrades readily & rapidly in the presence of oxygen; 85% in 48 hours ²
Abiotic Degradation	decomposes rapidly into hydrogen peroxide (= water & oxygen) & sodium borate, rate unknown ²
Mobility in soil, water	water soluble; moves readily in soil and water ²
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	51mg/litre (Brachydanio rerio) ²
EC ₅₀ (Crustacea, 24hr)	11 & 133-226mg/litre (Daphnia magna) ²
EC ₅₀ (Algae)	18 & 27mg/litre (Scenedesmus subspicatus) ²
EC ₃ (Bacteria)	290mg/litre (Pseudomonas putida) ² – <i>this is an EC₃, a barely observable effect</i>

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12. ECOLOGICAL INFORMATION, cont'd

Nonionic Surfactant:

Bioaccumulation	this surfactant does not appear to bioaccumulate; however, the breakdown product, unethoxylated nonylphenol, is poorly water soluble and may accumulate
Biodegradation	this surfactant biodegrades readily in the presence of oxygen; 34% biodegradation in 20 days yielding di- and mono-ethoxylate; <u>however, these latter compounds resist further biodegradation (below)</u>
Abiotic Degradation	not known – should react with atmospheric hydroxyl (OH) radicals; very low volatility makes this a minor degradation route
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/litre (Pimephelas promelas), 13.9-19.5mg/litre (Poecilia reticulata – 48hr)
LC ₅₀ (Crustacea, 48hr)	3.8-6.2 & 18.2mg/litre (Daphnia magna), 20.9mg/litre (Gammarus pulex)
EC ₅₀ (Algae, 96hr)	15mg/litre (Lemna minor), 7mg/litre (Scenedesmus quadricauda)

NOTE: Nonylphenol Ethoxylates, as a class of compounds, biodegrade to estrogenic hormone mimics in the environment & may lead to instances of reproductive failure in shore birds, amphibia & fish.

Sodium Alkylbenzene Sulfonic Acid:

Bioaccumulation	does not bioaccumulate ¹
Biodegradation	readily biodegradable; 69% to 90% in 28 days (various linear benzene sulfonates tested) 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/litre (various species) ¹
EC ₅₀ (Crustacea, 48 hr)	1.62mg/litre (Daphnia magna) ¹
EC ₅₀ (Algae, 72 hr)	29mg/litre (Selenastrum capricornutum) ¹

Polyvinyl Pyrrolidone:

Bioaccumulation	does not bioaccumulate
Biodegradation	biodegrades slowly; 20-30% in 15 days
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)	10,000mg/litre (Brachydanio rerio)
EC ₅₀ (Crustacea, 48 hr)	>100mg/litre (Daphnia magna)
EC ₅₀ (Algae, 72 hr)	>100mg/litre (Selenastrum capricornutum)

Optical Brightener: no data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal	do not flush to sewer; may be incinerated in approved facility with flue gas monitoring & scrubbing, mix with a suitable flammable waste before incineration; may be landfilled if local regulations permit
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 Not regulated

Marine Pollution not a marine pollutant
ERAP Required No

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15. REGULATIONS

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

16. OTHER INFORMATION

Date of Preparation October 2014

Date of Revision -

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) 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>

(2) European Union Risk Assessment Report, Perboric Acid, Sodium Salt, Final Report, 2007:

<http://publications.jrc.ec.europa.eu/repository/bitstream/11111111/1202/1/perboricacidsodiumsaltsum301.pdf>

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