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Safety Data Sheet Bonnet Cleaner

1. IDENTIFICATION

Synonyms none
 CAS# see Part 3, below
 Material Use carpet cleaner

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

2. HAZARD IDENTIFICATION

GHS Class (Category)	skin irritant (2)	eye irritation (2A)
Signal Words	WARNING	WARNING
Hazard Statements	causes skin Irritation (H315)	causes serious eye irritation (H319)



GHS Precautionary Statements for Labeling

P262, P264 Do not get in eyes or on skin. Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear eye protection and protective gloves of butyl.
 P313 & P333 If skin irritation or rash occurs, get medical advice/attention.

3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m ³	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ ppm INHALATION
Glycol Ether DB	112-34-5	10%	not listed	2000	>2765	not known
2-Propanol	67-63-0	3%	200 / 490	>4400	12,900	>5920
Anionic Surfactant	on request	2.5%	not listed	>5000	>2000	not known
Sodium Xylene Sulfonate	1300-72-7	2%	not listed	>7200	>2000	not known
Tetrasodium Ethylenediaminetetraacetic Acid	64-02-8	2%	not listed	>1780	>5000	not known
Water	7732-18-5	balance	not toxic	90,000	not toxic	not toxic

4. FIRST AID

SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or 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 persistent 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 low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

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5. FLAMMABILITY & FIRE-FIGHTING

Flash Point	above 93°C / 200°F (closed cup)
Autoignition Temperature	above 204°C / 400°F
Flammable Limits	not known
Combustion Products	oxides of carbon, nitrogen & sulphur; smoke, part oxidized hydrocarbon fragments
Firefighting Precautions	as for materials sustaining fire; compatible with water; 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	recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal

7. HANDLING & STORAGE

Store above freezing and away from oxidizing agents. Never cut, 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 mist. If mist forms in use, install adequate ventilation to control airborne titre to regulated limits (*see Part 8, below*). Avoid prolonged contact with skin & wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

2-Propanol:

ACGIH TLV	200ppm / 491mg/m ³	ACGIH STEL	400ppm / 983mg/m ³
OSHA PEL	400ppm / 980mg/m ³	OSHA STEL	500ppm / 1225mg/m ³
Ventilation	no special mechanical ventilation required		
Hands	butyl gloves – <i>always confirm suitability with supplier</i>		
Eyes	safety glasses with side shields or chemical goggles – <i>always protect eyes!</i>		
Clothing	impermeable (hands, above) apron, boots, long sleeves, if splashing is anticipated		

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: for Flash Point, Autoignition Temperature & Flammable Limits see Part 5.

Odor & Appearance	clear, colorless, liquid with a citrus 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>), 2.1 (<i>2-Propanol</i>), 5.6 (<i>Glycol Ether DB</i>)
Boiling Point	slightly above 100°C / 212°F
Freezing Point	slightly below 0°C / 32°F
Decomposition Temperature	not known – <i>no decomposition can occur until all the water has evaporated</i>
Specific Gravity	1.0 (20/20°C)
Water Solubility	complete
Viscosity	not measured – <i>thin mobile liquid</i>
pH	9-11 – <i>alkaline</i>

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10. REACTIVITY

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

11. TOXICITY INFORMATION**i. ACUTE EXPOSURE**

Skin Contact	irritating
Skin Absorption	slight; toxic effects unlikely by this route
Eye Contact	severely irritating, prolonged contact may damage eyes
Inhalation	product mist may irritate respiratory system
Ingestion	irritating to mouth, throat & stomach; may cause nausea, stomach ache & vomiting; <i>not a route of industrial exposure</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure may cause dermatitis through removal of protective skin oils
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known to be a tumorigen or a carcinogen 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)	13,200mg/kg (rat)
Calculated LD ₅₀ (skin)	15,400mg/kg (rabbit)
LC ₅₀ (inhalation)	not known – <i>insufficient information to calculate</i>

12. ECOLOGICAL INFORMATION**Diethylene Glycol Butyl Ether:**

Bioaccumulation	rapidly eliminated from the body; not a bioaccumulator
Biodegradation	biodegrades readily in presence of oxygen; 47% to 88% (<i>several 28-day tests, different procedures</i>); 66% & 85% in 28 days ¹ ; other tests show 100% biodegradability in 6-9 days
Abiotic Degradation	reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 7hrs & 11hrs
Mobility in soil, water	water soluble; moves readily & rapidly in soil and water
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	1300mg/liter (Lepomis macrochirus), 2000mg/liter (Menidia beryllina), 1805-2300 & 2700mg/liter (Leuciscus idus, 48hr), 1150mg/liter (Poecilia reticulata, 168hr)
EC ₅₀ (Crustacea, 24hr)	2850-3300mg/liter (Daphnia magna, <i>various tests</i>)
EC ₃ (Algae)	53mg/liter (Microcystis aeruginosa), 1000mg/liter (Scenedesmus quadricauda)
EC ₁₀ (Bacteria)	1170mg/liter (Pseudomonas putida)

2-Propanol:

Bioaccumulation	low potential for bioaccumulation
Biodegradation	biodegrades readily & rapidly; aerobic >75% in 28 days; anaerobic >65% in 20 days
Abiotic Degradation	reacts with atmospheric hydroxyl (OH) radicals; estimated ½-life in air 3.2 days
Mobility in soil, water	water soluble; moves readily through soil and the water column
Aquatic Toxicity	
LC ₅₀ (Fish, 96)	9640, 10,400 & 11,130mg/liter (Pimephelas promelas), 4200mg/liter (Rasbora heteromorpha)
LC ₅₀ (Crustacea, 48)	1100 & 1400mg/l (Crangon crangon), 13,300mg/liter (Daphnia magna)
EC ₅₀ (Algae, 96hr)	1000mg/l (Scenedesmus subspicatus)
LC ₅₀ (Microorganisms)	1050 & 5175mg/l (Pseudomonas putida), 41,676mg/liter (“activated sludge, domestic sewage”)

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12. ECOLOGICAL INFORMATION, cont'd

Anionic Surfactant:

Bioaccumulation	readily metabolised and will not bioaccumulate
Biodegradation	"inherently biodegradable" by OECD criteria; 58% biodegradable in 28 days
Abiotic Degradation	reacts with atmospheric hydroxyl (OH) radicals; estimated ½-life in air 12-18 hours
Mobility in soil, water	water soluble; moves readily through soil & the water column

Aquatic Toxicity

LC ₅₀ (Fish 96 hr)	7.66mg/liter (Salmo gairdneri), 6.81mg/liter (Lepomis macrochirus), 3.85mg/liter (Pimephelas promelas),
LC ₅₀ (Crustacea, 48hr)	1.84 & 3.63mg/liter (Daphnia magna), 5.3mg/liter (Ceriodaphnia dubia)
EC ₅₀ (Algae, 72hr)	>100mg/liter (Pseudokirchnerella subcapitata)
LC ₅₀ (Microorganisms)	>100mg/liter (domestic sewage sludge)

Sodium Xylenesulfonate:

Bioaccumulation	not a bioaccumulator
Biodegradation	biodegrades readily & rapidly in the presence of oxygen; 69% in 5 days, 84%-88% in 28 day
Abiotic Degradation	photodegradation occurs; estimated ½-life in air is ~40hr
Mobility in soil, water	water soluble; moves readily in soil and water

Aquatic Toxicity

LC ₅₀ (Fish, 96hr)	400mg/liter (Onchorhynchus mykiss), 408mg/liter (Pimephales promelas)
EC ₅₀ (Crustacea, 24hr)	400 & 408mg/liter (Daphnia magna)
EC ₅₀ (Algae)	230mg/liter (Selenastrum capricornutum)
EC ₅₀ (Bacteria)	not known – rapid biodegradability suggests low level of harm to bacteria

Tetrasodium Ethylenediaminetetraacetic Acid:

Bioaccumulation	not a bioaccumulator
Biodegradation	various values reported from 1% in 72days to 63% in 5 days!
Abiotic Degradation	not known
Mobility in soil, water	highly water soluble; expected to bind to soil particles; may move slowly or not at all in soil & water

Aquatic Toxicity

LC ₅₀ (Fish, 96hr)	41, 159, 486, 532, 1030 & 2070mg/liter (Lepomis macrochirus), 60mg/liter (Pimephelas promelas)
EC ₅₀ (Crustacea, 24hr)	610, 625 & 1030mg/liter (Daphnia magna), 4834mg/liter (Crangon crangon, 96hr) & others
EC ₅₀ (Algae)	>100mg/liter (Scenedesmus subspicatus)
EC ₁₀ (Bacteria)	55mg/liter (Pseudomonas putida), >1000mg/liter (other bacteria)
EC ₅ (Microbes)	663mg/liter (Chilomonas paramecium)

Variable data suggest test conditions (eg: water hardness, pH) are important in determining aquatic toxicity. Biodegradation data are also highly variable, probably for similar reasons.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	do not flush undiluted 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	UN – not regulated for transport
Shipping Name	not regulated for transport
Classification	not regulated for transport
Marine Pollution	not a marine pollutant
ERAP Required	No
Reportable Quantity (RQ)	none

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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 **April 2015**

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

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