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Safety Data Sheet Enviro-Green

1. IDENTIFICATION

Synonyms none
 CAS# see Part 3, below
 Material Use cleaner & odor neutralizer

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

2. HAZARD IDENTIFICATION

GHS Class (Category)	skin irritant (3)	eye irritant (2A)	chronic aquatic (3)
Signal Words	WARNING no Pictogram	WARNING	no Signal Word no Pictogram
Hazard Statements	causes mild skin irritation (H315)	causes serious eye irritation (H319)	harmful to aquatic life with long-lasting effects (H412)



GHS Precautionary Statements for Labeling

P262, P264 Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.
 P270, P280 Do not eat, drink or smoke when using this product. Wear protective gloves of rubber.
 P273 Avoid release to the environment.

3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m ³	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ ppm INHALATION
2-Propanol	67-63-0	5-10%	200 / 490	>4400	12,900	>5920ppm
Nonionic Surfactant	on request	1-5%	not listed	>2000	not known	not known
Fragrance	on request	1-5%	not listed	4140	5750	not known
Water	7732-18-5	balance	not toxic	90.000	not toxic	not toxic

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.

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5. FLAMMABILITY & FIRE-FIGHTING

Flash Point	will not flash
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	recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal

7. HANDLING & STORAGE

Store and use in a cool dry environment, away from sources of ignition, heat and oxidizing agents. Always replace 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 maintain airborne concentration of the product below the TLV (see Part 8, below). If dealing with a spill, and ventilation is impractical, wear a suitable respirator. *If the spill is extensive, use an air-supplied respirator.* Avoid prolonged contact with skin and 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	wear rubber gloves – <i>other types also protect; always confirm suitability with supplier</i>
Eyes	safety glasses with side shields – <i>always protect eyes!</i>
Clothing	impermeable (hands, above) apron and boots, if splashing is anticipated

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	slightly hazy, green, liquid with fresh floral odor
Odor Threshold	not known
Vapor Pressure	below 33mmHg / 4.4kPa (20°C/ 68°F) – <i>Isopropanol</i>
Evaporation Rate (<i>Butyl Acetate = 1</i>)	as for water
Vapor Density (air = 1)	0.6 (<i>water</i>), 2.1 (<i>isopropanol</i>); <i>other components do not form a vapor</i>
Boiling Point	approx. 100°C / 212°F
Freezing Point	approx.. -5°C / 23°F
Specific Gravity	0.982-0.996 (20/20°C)
Water Solubility	complete
Viscosity	not known
pH	6.5-8.5

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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	one minor component begins to decompose above 60°C
Decomposition Products	chlorinated hydrocarbons, ammonia, amines, hydrogen chloride, trimethylamine
Mechanical Impact	not sensitive

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	may irritate skin if exposure is prolonged – <i>through removal of natural skin oils</i>
Skin Absorption	slight; toxic effects unlikely by this route
Eye Contact	severely irritating
Inhalation	no effects known
Ingestion	headache, dizziness, drowsiness, intoxication, vomiting & stomach ache
Calculated LD ₅₀ (oral)	23,800mg/kg (rat)
Calculated LD ₅₀ (skin)	100,000mg/kg (rabbit)
LC ₅₀ (inhalation)	<i>insufficient information to calculate</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure may cause dermatitis
Sensitizing	not a sensitizer to most people; two minor components (below 0.09% & below 0.05%) are skin sensitizers; <i>too little present to affect most people – however, it is prudent to limit skin contact</i>
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

12. ECOLOGICAL INFORMATION

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”)

Nonionic Surfactant:

Bioaccumulation	this surfactant does not appear to bioaccumulate; <i>however, the breakdown product, unethoxylated nonylphenol, is poorly water soluble, does accumulate, and is toxic to aquatic life</i>
Biodegradation	this surfactant biodegrade readily in the presence of oxygen; 34% biodegradation in 20 days yielding di- and mono-ethoxylate; <u>these latter compounds resist further biodegradation (below)</u>
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)

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13. DISPOSAL CONSIDERATIONS

- Waste Disposal **do not flush to sewer**; due to the presence of nonylphenol ethoxylate, waste material should be handled by a hazardous waste specialist
- 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

15. REGULATIONS

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

16. OTHER INFORMATION

Date of Preparation September 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

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