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## Safety Data Sheet NDC 64

### 1. IDENTIFICATION

Synonyms none  
 CAS# see Part 3, below  
 Material Use neutral disinfectant

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

### 2. HAZARD IDENTIFICATION

GHS Class (Category)	skin irritant (2)	eye irritant (2A)	acute aquatic (3)
Signal Words	<b>WARNING</b>	<b>WARNING</b>	no Signal Word no Pictogram
Hazard Statements	causes skin irritation (H315)	causes serious eye irritation (H319)	harmful to aquatic life (H402)



#### GHS Precautionary Statements for Labeling

P260 Do not breathe vapors.  
 P262 Do not get in eyes or on skin.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear eye protection and protective gloves of nitrile or butyl.  
 P273, P391 Avoid release to the environment. 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 <sup>3</sup>	LD <sub>50</sub> (mg/kg) ORAL	LD <sub>50</sub> (mg/kg) SKIN	LC <sub>50</sub> ppm INHALATION
Tetrasodium Ethylenediaminetetraacetic Acid	64-02-8	1-5%	not listed	>1780	>5000	not known
Alkyl dimethyl benzyl ammonium chloride, C <sub>12-16</sub>	68424-85-1	1-5%	not listed	>426	not known	not known
Decyl dimethyl octyl ammonium chloride	32426-11-2	1-5%	not listed	not known	not known	not known
Didecyl dimethyl ammonium chloride	7173-51-5	<1%	not listed	>84	>2730	not known
Dimethyldioctylammonium chloride	5538-94-3	<1%	not listed	>50	not known	not known
Nonylphenol Ethoxylate NP-9	127087-87-0	<1%	not listed	>2000	not known	not known
Ethanol	64-17-5	1-5%	1000 / 1880	3450	20,000	20,000
Water	7732-18-5	balance	not toxic	90,000	not known	not known

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#### 4. FIRST AID

SKIN:	Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly 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. <b>CAUTION: Rescuer must not endanger himself!</b> 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: Corrosive substance: first aid must be applied immediately!** Inadvertent inhalation of vomited material may seriously damage the lungs. 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, 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 and use above freezing. Avoid generating or breathing product vapor or mist. If mist or vapor form in use, install adequate ventilation to control airborne concentration to regulated limits. Avoid contact with skin & wash work clothes frequently. An eye bath must be available near the workplace.

#### 8. EXPOSURE CONTROL & PERSONAL PROTECTION

**Ethanol:**

ACGIH TLV	1000ppm / 1900mg/m <sup>3</sup>	ACGIH STEL	not listed
OSHA PEL	not listed	OSHA STEL	not listed
Ventilation	no special mechanical ventilation is required		
Hands	wear nitrile or butyl gloves – <i>always confirm suitability with supplier</i>		
Eyes	safety glasses with side shields – <i>always protect eyes!</i>		
Clothing	an impermeable (hands, above) apron and boots are recommended; if splashing is likely more extensive protective clothing may be needed – <i>somewhat viscous liquid so splashing is not very likely</i>		

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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

Odor & Appearance	clear, yellow liquid with a "rainforest" scent
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> ), 1.4 ( <i>ethanol</i> ) – <i>no other volatiles present</i>
Boiling Point	approx. 100°C / 212°F
Freezing Point	approx. 0°C / 32°F
Decomposition Temperature	not known – <i>no decomposition below the boiling point</i>
Specific Gravity	0.91 (20/20°C)
Water Solubility	complete
Viscosity	not known – <i>thin mobile liquid</i>
pH	7.5 – 8.5 – <i>slightly alkaline</i>

## **10. REACTIVITY**

Dangerously Reactive With	not reactive
Also Reactive With	strong oxidizing agents
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 to skin
Skin Absorption	slight; toxic effects unlikely by this route
Eye Contact	irritating to eyes
Inhalation	product mist may irritate respiratory system
Ingestion	irritating to mouth, throat & stomach – <i>not a route of industrial exposure</i>
Calculated LD <sub>50</sub> (oral)	3100mg/kg (rat)
LD <sub>50</sub> (skin)	<i>insufficient information to calculate</i>
LC <sub>50</sub> (inhalation)	<i>insufficient information to calculate</i>

### ***ii. CHRONIC EXPOSURE***

General	prolonged or repeated exposure may cause dermatitis
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

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## 12. ECOLOGICAL INFORMATION

### ***Tetrasodium Ethylenediaminetetraacetic Acid:***

Bioaccumulation	not a bioaccumulator
Biodegradation	various values reported from 1% in 72dy to 63% in 5dy
Abiotic Degradation	not known
Mobility in soil, water	highly water soluble; but may bind to soil particles, so may move slowly or not at all in soil & water
<b>Aquatic Toxicity</b>	
LC <sub>50</sub> (Fish, 96hr)	41, 159, 486, 532, 1030 & 2070mg/liter (Lepomis macrochirus), 60mg/liter (Pimephelas promelas)
EC <sub>50</sub> (Crustacea, 24hr)	610, 625 & 1030mg/liter (Daphnia magna), 4834mg/liter (Crangon crangon, 96hr) & others
EC <sub>50</sub> (Algae)	>100mg/liter (Scenedesmus subspicatus)
EC <sub>10</sub> (Bacteria)	55mg/liter (Pseudomonas putida), >1000mg/liter (other bacteria)
EC <sub>5</sub> (Microbes)	663mg/liter (Chilomonas paramecium)

### ***Ethanol:***

Bioaccumulation	readily metabolized or eliminated; cannot bioaccumulate
Biodegradation	biodegrades readily & rapidly with oxygen; 37-86% in 5 days
Abiotic Degradation	react with atmospheric hydroxyl radicals; est. ½-life in air 4-6 days
Mobility in soil, water	water soluble; moves readily in soil and water
<b>Aquatic Toxicity</b>	
LC <sub>50</sub> (Fish, 96hr)	14,200 & 15,300mg/liter (Pimephelas promelas), 10,000-11500mg/liter (Alburnus alburnus)
LC <sub>50</sub> (Crustacea, 48hr)	9270-14,220mg/liter (Daphnia magna)
EC <sub>50</sub> (Algae)	10,943-11,619mg/liter (Skeletonema costatum), 9310mg/liter (Chorella pyrenoidosa)

### ***Quaternary Amines:***

Bioaccumulation	readily metabolized; cannot bioaccumulate
Biodegradation	biodegrade readily and rapidly in the presence of oxygen; rate not available
Abiotic Degradation	not known
Mobility in soil, water	water soluble; may move readily through soil & the water column
<b>Aquatic Toxicity</b>	<b><i>No aquatic toxicity values available for the quaternary amines present; probably quite toxic to marine life.</i></b>
<b><i>NOTE: Although the quaternary amines are potentially toxic to aquatic life, their concentration is low.</i></b>	

### ***Nonionic Surfactant – nonylphenol ethoxylate:***

Bioaccumulation	cannot bioaccumulate; <b><i>however, water insoluble breakdown product, unethoxylated nonylphenol, may accumulate</i></b>
Biodegradation	34% in 20 days to di- & mono-ethoxylate; <a href="#"><u><i>these latter compounds resist further biodegradation (below)</i></u></a>
Abiotic Degradation	may react with atmospheric hydroxyl (OH) radicals; low volatility – a minor degradation route
Mobility in soil, water	sufficiently water soluble to move readily through soil and the water column
<b>Aquatic Toxicity</b>	
LC <sub>50</sub> (Fish, 96 hr)	2.1-2.6mg/liter (Pimephelas promelas), 13.9-19.5mg/liter (Poecilia reticulata – 48hr)
LC <sub>50</sub> (Crustacea, 48hr)	3.8-6.2 & 18.2mg/liter (Daphnia magna), 20.9mg/liter (Gammarus pulex)
EC <sub>50</sub> (Algae, 96hr)	15mg/liter (Lemna minor), 7mg/liter (Scenedesmus quadricauda)

***NOTE: Nonylphenol Ethoxylates biodegrade to estrogenic hormone mimics in the environment, which may lead to reproductive failure in birds, amphibia & fish.***

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**13. DISPOSAL CONSIDERATIONS**

- Waste Disposal **do not flush to sewer**; after mixing with a suitable flammable waste, may be incinerated in approved facility with flue gas monitoring & scrubbing
- 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
<i>Marine Pollution</i>	<i>not a marine pollutant</i>
<i>ERAP Required</i>	<i>No</i>
<i>Reportable Quantity (RQ)</i>	<i>none</i>

**15. REGULATIONS**

Canada DSL	on inventory
U.S.A. TSCA	on inventory
Europe EINECS	on inventory
<i>U.S.A. Regulations:</i>	
SARA Hazards	Immediate – Yes
SARA 302 Extremely Hazardous	No
SARA 311/312 Hazardous	No
SARA 313 Reporting	not Reportable

Fire - no

**16. OTHER INFORMATION**Date of Preparation **June 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

**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**