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Safety Data Sheet Economy Laundry

1. IDENTIFICATION

Synonyms none
 CAS# see Part 3
 Material Use laundry detergent

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

2. HAZARD IDENTIFICATION

GHS Class (Category)	skin irritant (2)	eye irritant (2A)	aquatic chronic (2)
Signal Words	WARNING	WARNING	no Signal Word
Hazard Statements	causes skin Irritation (H315)	causes severe eye irritation (H319)	toxic to aquatic life with long- lasting effects (H411)



GHS Precautionary Statements for Labeling

P262, P264 Do not get in eyes or on skin. Wash thoroughly after handling.
 P280 Wear eye protection & protective gloves of neoprene.
 P273, P391 Avoid release to the environment. Collect spillage.
 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
Nonionic Surfactant	127087-87-0	10-20%	not listed	>2000	not known	not known
Sodium Polyacrylate	9003-04-7	1-5%	not listed	40,000	not toxic	not toxic
Monoethanolamine (MEA)	141-43-5	<1%	3 / 7.5	620	1025	>1212
Dipropylene Glycol Monoethyl Ether (DPM)	34590-94-8	<1%	100/600 (skin)	>5120	>9500	not known
Water	7732-18-5	balance	not toxic	90,000	not toxic	not toxic

NOTE: Several other components are present at <1% and not hazardous or are present at <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 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 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; 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. 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 concentration of the product to regulated limits (*see Part 8, below*). Avoid contact with skin & wash work clothes frequently. An eye bath should be available near the workplace.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Monoethanolamine:

ACGIH TLV	3ppm / 7.5mg/m ³	ACGIH STEL	6ppm / 15mg/m ³
OSHA PEL	3ppm / 8mg/m ³	OSHA STEL	not listed

Dipropylene Glycol Methyl Ether:

ACGIH TLV	100ppm / 606mg/m ³	ACGIH STEL	150ppm / 909mg/m ³
OSHA PEL	100ppm / 600mg/m ³	OSHA STEL	150ppm / 900mg/m ³

Ventilation	no special mechanical ventilation required
Hands	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

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9. PHYSICAL AND CHEMICAL PROPERTIES

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

Odor & Appearance	clear, blue, liquid with a floral (“rain forest”) 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>); <i>glycol ether DPM and monoethanolamine are considerably heavier than air</i>
Boiling Point	not measured; approximately 105°C / 221°F
Freezing Point	not measured; approximately -5°C / 23°F
Decomposition Temperature	not known
Specific Gravity	1.00-1.02 (20/20°C)
Water Solubility	complete
Viscosity	not known
pH	10.1-11.2 – <i>alkaline</i>

10. REACTIVITY

Dangerously Reactive With	may react vigorously with strong acids
Also Reactive With	none known
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	none expected
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	irritating to skin if not removed promptly
Skin Absorption	yes, slowly; toxic effects unlikely by this route
Eye Contact	severely irritating, may damage eyes
Inhalation	product mist may irritate the respiratory system
Ingestion	irritating to mouth, throat & stomach; may cause stomach ache, nausea & vomiting – <i>not a route of industrial exposure</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure may cause dermatitis due largely to 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)	12,700mg/kg (rat)
Calculated LD ₅₀ (skin)	<i>insufficient information to calculate</i>
LC ₅₀ (inhalation)	<i>insufficient information to calculate</i>

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12. ECOLOGICAL INFORMATION

Nonionic Surfactant – nonylphenol ethoxylate NP-9:

Bioaccumulation	the surfactant does not bioaccumulate; however, the breakdown product, unethoxylated nonylphenol, is poorly water soluble & may accumulate
Biodegradation	34% in 20 days to di- & mono-ethoxylate; <u>these latter compounds resist further biodegradation (below)</u>
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
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)

NOTE: The Nonylphenol Ethoxylate class of compounds biodegrade to estrogenic hormone mimics in the environment & may lead to instances of reproductive failure in shore birds, amphibia & fish. (For further information, see Notes in Part XV, Regulations)

Sodium Polyacrylate:

Bioaccumulation	poorly absorbed & water soluble; cannot 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>)
LC ₅₀ (Crustacea, 48hr)	6000mg/liter (Daphnia magna)
EC ₅₀ (Algae, 72hr)	>100mg/liter (<i>species not given</i>)
LC ₅₀ (Microorganisms)	not known

Dipropylene Glycol Monoethyl Ether:

Bioaccumulation	water soluble – cannot bioaccumulate; <i>also rapid rate of elimination/metabolism</i>
Biodegradation	biodegrades readily in the presence of oxygen; 34% in 28 days, 73% in 28 days, 93% in 13 days
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 (Pimephales promelas), 150mg/liter (Nothropis atherinoides – 72hr)
LC ₅₀ (Crustacea, 48hr)	1920mg/liter (Daphnia magna), >1000mg/liter (Crangon crangon – 96hr)
EC ₅₀ (Algae)	not known
EC ₁₀ (Bacteria)	4168mg/liter (Pseudomonas putida) – <i>this is an EC₁₀ not an EC₅₀</i>

Monoethanolamine:

Bioaccumulation	highly water soluble & readily metabolised; cannot bioaccumulate
Biodegradation	biodegrades readily with oxygen: 97% in 4 days, 62% & 92% in 28 days, 80% in 19 days, 80-90% in 26 days
Abiotic Degradation	reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 11 hours & 27hours (<i>2 tests</i>)
Mobility in soil, water	water soluble; mobile in soil & water; but expected to become a cation & adsorb strongly to soil
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr)	227 & 2070mg/liter (Pimephales promelas); 3680 & 5000mg/liter (Brachydanio rerio), 170 & 190mg/liter (Carassius auratus), 337mg/liter (Gambusia affinis), 330mg/liter (Lepomis macrochirus), 150mg/liter (Oncorhynchus mykiss)
EC ₅₀ (Crustacea, 48hr)	65mg/liter (Daphnia magna), 120 & 140mg/liter (Daphnia magna, 24hr)
EC ₅₀ (Algae)	15mg/liter (Scenedesmus subspicatus), 70mg/liter (" <i>other algae</i> ")
EC ₅₀ (Bacteria)	110mg/liter (Pseudomonas putida), 13.7mg/liter (Photobacterium phosphoreum)

13. DISPOSAL CONSIDERATIONS

Waste Disposal	do not flush undiluted to sewer; incinerate in approved facility with flue gas monitoring & scrubbing, mix with a suitable flammable waste before incineration
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.

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

Product Identification Number	<i>not regulated</i>
Marine Pollution	<i>not a marine pollutant</i>
ERAP Required	<i>No</i>

15. REGULATIONS

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

U.S.A. Regulations:

In the USA, the EPA mounted (August 18, 2010) an "action plan" for nonylphenol ethoxylates: See the *Nonylphenol & Nonylphenol Ethoxylates Action Plan Summary*, <http://www.epa.gov/oppt/existingchemicals/pubs/actionplans/np-npe.html> AND http://www.epa.gov/oppt/existingchemicals/pubs/actionplans/RIN2070-ZA09_NP-NPEs%20Action%20Plan_Final_2010-08-09.pdf

Europe EINECS **all components on inventory – but see notes, below:**

It is prohibited to place on the market or use plant protection products containing nonylphenol ethoxylates (C₂H₄O)_nC₁₅H₂₄O compounds because these active substances have not been included in Annex I to Council Directive 91/414/EEC of 15 July 1991 concerning the placing of plant protection products on the market (OJ L 230, 19.8.1991, p 1-32) pursuant to Commission Regulation (EC) No 2076/2002 of 20 November 2002 extending the time period referenced in Article 8(2) of Council Directive 91/414/EEC concerning the non-inclusion of certain active substances in Annex I to that Directive and the withdrawal of authorisations for plant protection products containing these substances (OJ L 319, 23.11.2002, p. 3-11). Furthermore, in accordance with point 46 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, it is prohibited to place on the market or use nonylphenol ethoxylates (C₂H₄O)_nC₁₅H₂₄O compounds, as substances or in mixtures in concentrations equal to or greater than 0,1 % by weight for several purposes (OJ L 396, 30.12.2006, p. 1-849) pursuant to Commission Regulation (EC) No 552/2009 of 22 June 2009 amending Regulation (EC) No 1907/2006 of the European Parliament & the Council on the Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH) as regards Annex XVII (OJ L 164, 26.6.2009, p. 7-31).

Nonylphenol ethoxylates (C₂H₄O)_nC₁₅H₂₄O compounds have therefore been added to Annex I to Regulation (EC) No 689/2008 of the European Parliament and of the Council concerning the export and import of dangerous chemicals (OJ L 204, 31.7.2008, p. 1-35).

European Regulations forbid the use of Nonylphenol Ethoxylates for dispersive uses, but allow their use in applications where there is little or no release to the environment. Read this brief summary from July 1997 (when Europe began to reduce nonylphenol ethoxylate use):

<http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=4243335&q=http%3A%2F%2Fwww.csa.com%2Fpartners%2Fviewrecord.php%3Frequester%3Dgs%26collection%3DENV%26recid%3D4243335&uid=791557892&setcookie=yes>

16. OTHER INFORMATION

Date of Preparation April 2015

Date of Revision -

Prepared for Tomco-Harwel, by **Peter Burszty**n

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>

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