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## Safety Data Sheet Gen Chem

### 1. IDENTIFICATION

Synonyms none  
 CAS# see Part 3, below  
 Material Use food service industry cleaner

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

### 2. HAZARD IDENTIFICATION

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



#### 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 eye protection and protective gloves of nitrile.  
 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
Alkylbenzenesulfonic Acid	85536-14-7	10-20%	not listed	above 500	not known	not known
Nonylphenol Ethoxylate NP-9	127087-87-0	5-10%	not listed	>2000	not known	not known
Sodium Hydroxide	1310-73-2	1-5%	2	over 500	not known	not known
Water	7732-18-5	balance	not toxic	90,000	not toxic	not toxic

NOTE: Several, non-hazardous, components are present at below 1%.

### 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 installing an airway to protect the lungs.

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**5. FLAMMABILITY & FIRE-FIGHTING**

Flash Point	cannot burn
Autoignition Temperature	cannot burn
Flammable Limits	cannot burn
Combustion Products	oxides of carbon, nitrogen, sulphur & sodium; 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	ventilate contaminated area; recover free liquid with explosion-proof pumps; absorb residue on an inert sorbent, pick up using non-sparking plastic or aluminium shovel, & store in closed containers for disposal

**7. HANDLING & STORAGE**

Store 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 clear workplace air. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath should be available near the workplace.

**8. EXPOSURE CONTROL & PERSONAL PROTECTION****Sodium Hydroxide:**

ACGIH TLV	2mg/m <sup>3</sup>	ACGIH STEL	not listed
OSHA PEL	2mg/m <sup>3</sup>	OSHA STEL	not listed
Ventilation	no special mechanical ventilation required		
Hands	wear rubber or nitrile gloves – <i>other types also protect; always confirm suitability with supplier</i>		
Eyes	safety glasses with side shields – <i>always protect eyes!</i>		
Clothing	no special protective clothing required		

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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

Odor & Appearance	clear, mobile, green liquid with a slight 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>no other volatile materials present</i>
Boiling Point	not known; approximately 105°C / 221°F
Freezing Point	not known; approximately -5°C / 23°F
Decomposition Temperature	not known
Specific Gravity	1.032 – 1.044 (20/20°C)
Water Solubility	complete
Viscosity	not known – mobile liquid
pH	7.5 – 9.5 – <i>somewhat alkaline</i>

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**10. REACTIVITY**

Dangerously Reactive With	none known
Also Reactive With	strong acids
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 if contact is prolonged
Skin Absorption	slight; toxic effects unlikely by this route
Eye Contact	severely irritating
Inhalation	no symptoms known
Ingestion	irritating to mouth, throat and stomach; may cause stomach ache, nausea, vomiting
Calculated LD <sub>50</sub> (oral)	2160mg/kg (rat)
LD <sub>50</sub> (skin)	<i>no data – not absorbed; no toxic effects expected</i>
LC <sub>50</sub> (inhalation)	<i>no data – not absorbed; no toxic effects expected</i>

**ii. CHRONIC EXPOSURE**

General	prolonged or repeated exposure may cause dermatitis through removal or 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

**12. ECOLOGICAL INFORMATION****Alkylbenzene Sulfonic Acid:**

Bioaccumulation	does not bioaccumulate
Biodegradation	readily biodegradable; 69% to 90% in 28 days ( <i>various linear benzene sulfonates tested</i> )
Abiotic Degradation	not known
Mobility in soil, water	water soluble; moves readily in soil and the water column

**Aquatic Toxicity**

LC <sub>50</sub> (Fish, 96 hr)	2.9-13mg/liter ( <i>various species</i> )
EC <sub>50</sub> (Crustacea, 48 hr)	1.62mg/liter (Daphnia magna)
EC <sub>50</sub> (Algae, 72 hr)	29mg/liter (Selenastrum capricornutum)

**Nonylphenol Ethoxylate NP-9:**

Bioaccumulation	cannot bioaccumulate; <i>however, breakdown product, unethoxylated nonylphenol, is water insoluble &amp; may accumulate</i>
Biodegradation	34% in 20 days to di- & mono-ethoxylate; <a href="#"><i>these latter compounds resist further biodegradation (below)</i></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

**Aquatic Toxicity**

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: 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 15, Regulations)***

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## 12. ECOLOGICAL INFORMATION, cont'd

### **Sodium Hydroxide:**

Bioaccumulation	not a bioaccumulator
Biodegradation	inorganic product – cannot biodegrade
Abiotic Degradation	dilutes readily in surface water, neutralizing with dissolved CO <sub>2</sub> to sodium carbonate; if calcium or magnesium ions are present, insoluble & immobile carbonates precipitate.
Mobility in soil, water	water soluble; moves readily in soil and water, <i>but see above</i>

### **Aquatic Toxicity**

LC <sub>50</sub> (Fish 96 hr)	125mg/liter (Gambusia affinis), 45mg/liter (Oncorhynchus mykiss) – <i>lethal due to alkalinity</i>
LC <sub>100</sub> (Crustacea, 48hr)	100-150mg/liter (Daphnia magna); 125-1000mg/liter (freshwater insect larvae)
EC <sub>50</sub> (Algae)	<i>no information</i>
EC <sub>50</sub> (Bacteria)	<i>no information</i>

**NOTE:** Lethal pH for freshwater fish is pH= 9, when damage occurs to their mucus coating & gills.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal	<b>do not flush to sewer;</b> may be incinerated in approved facility with flue gas monitoring & scrubbing, mix with a suitable flammable waste before incineration
Containers	<b>Drums</b> should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use. <b>Pails</b> must be vented and thoroughly dried prior to crushing and recycling. <b>IBCs</b> (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. <b>Warning: never cut, drill, weld or grind on or near this container, even if empty.</b>

## 14. TRANSPORT INFORMATION

### **USA 49 CFR & Canada/International TDG**

Product Identification Number	<b>UN – not regulated for transport</b>
Shipping Name	<b>not regulated for transport</b>
Classification	<b>not regulated for transport</b>
<b>Marine Pollution</b>	<b>not a marine pollutant</b>
<b>ERAP Required</b>	<b>No</b>
<b>Reportable Quantity (RQ)</b>	<b>none</b>

## 15. REGULATIONS

<b>Canada DSL</b>	<b>on inventory</b>
<b>U.S.A. TSCA</b>	<b>on inventory</b>

### **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](http://www.epa.gov/oppt/existingchemicals/pubs/actionplans/RIN2070-ZA09_NP-NPEs%20Action%20Plan_Final_2010-08-09.pdf)

**Europe EINECS** **on inventory, but limited use:**

Nonylphenol ethoxylates (C<sub>2</sub>H<sub>4</sub>O)<sub>n</sub>C<sub>15</sub>H<sub>24</sub>O 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](http://www.oj-lj.org)).

*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://mdl.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** **May 2015**

**Date of Revision** **-**

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

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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