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## Safety Data Sheet Neutra Solve

### 1. IDENTIFICATION

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

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

### 2. HAZARD IDENTIFICATION

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



#### GHS Precautionary Statements for Labeling

P260, P262, P264 Do not breathe mist or spray. 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	5-10%	not listed	above 500	not known	not known
Nonylphenol Ethoxylate NP-9	127087-87-0	1-5%	not listed	>2000	not known	not known
Tetrasodium Ethylenediaminetetraacetic Acid	64-02-8	1-5%	not listed	>1780	>5000	not known
Sodium Hydroxide	1310-73-2	1-5%	2mg/m <sup>3</sup>	over 500	not known	not known
Sodium Polyacrylate	9003-04-7	1-5%	not listed	40,000	not toxic	not toxic
Sodium Xylene Sulfonate	1300-72-7	1-5%	not listed	>7200	>2000	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 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 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	cannot flash
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	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 the freezing point. Keep away from heat & 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 concentration of the product to regulated limits. 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

### ***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	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	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 or slightly hazy, colorless, nearly odorless liquid
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 components present</i>
Boiling Point	100°C / 212°F
Freezing Point	0°C / 32°F
Decomposition Temperature	not known – <i>no decomposition below the boiling point</i>
Specific Gravity	1.005 to 1.02 (20/20°C)
Water Solubility	complete
Viscosity	not measured – <i>thin mobile liquid</i>
pH	7-9 – <i>moderately alkaline</i>

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**10. REACTIVITY**

Dangerously Reactive With	none known
Also Reactive With	strong oxidizing agents; 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, particularly if not removed promptly
Skin Absorption	slight; no toxic effects likely by this route
Eye Contact	severely irritating
Inhalation	no effect
Ingestion	irritating to mouth, throat & stomach; <i>aversive taste limits likelihood of ingestion</i>
Calculated LD <sub>50</sub> (oral)	5475mg/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 due 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

**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)

**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

**Aquatic Toxicity**

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) & <i>others</i>
EC <sub>50</sub> (Algae)	>100mg/liter (Scenedesmus subspicatus)
EC <sub>10</sub> (Bacteria)	55mg/liter (Pseudomonas putida), >1000mg/liter ( <i>other bacteria</i> )
EC <sub>5</sub> (Microbes)	663mg/liter (Chilomonas paramecium)

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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
Mobility in soil, water	water soluble; moves readily in soil and water; may precipitate with calcium or magnesium ions in the environment
<b>Aquatic Toxicity</b>	
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. At this pH damage occurs to their mucus coating & their gills.

### **Sodium Polyacrylate:**

Bioaccumulation	poorly absorbed and water soluble; will not 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
<b>Aquatic Toxicity</b>	
LC <sub>50</sub> (Fish 96 hr)	56,000mg/liter ( <i>species of fish not given</i> )
LC <sub>50</sub> (Crustacea, 48hr)	6000mg/liter (Daphnia magna)
EC <sub>50</sub> (Algae, 72hr)	>100mg/liter ( <i>species not given</i> )
LC <sub>50</sub> (Microorganisms)	not known

### **Nonylphenol Ethoxylate:**

Bioaccumulation	<b><i>this surfactant's breakdown product, unethoxylated nonylphenol is a bioaccumulator (see below)</i></b>
Biodegradation	biodegrades readily in the presence of oxygen; 34% biodegradation in 20 days yielding di- and mono-ethoxylate; <a href="#"><i>however, these latter compounds resist further biodegradation (below)</i></a>
Abiotic Degradation	not known – should react with atmospheric hydroxyl radicals; low volatility makes this 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, as a class of compounds, biodegrade to estrogenic hormone mimics in the environment & may lead to instances of reproductive failure in shore birds, amphibian & fish.***

### **Sodium Xylenesulfonate:**

Bioaccumulation	not a bioaccumulator
Biodegradation	biodegrades readily & rapidly in the presence of oxygen; 69% in 5 days <sup>1</sup> , 84%-88% in 28 day <sup>1</sup>
Abiotic Degradation	photodegradation occurs; estimated ½-life in air is ~40hr <sup>1</sup>
Mobility in soil, water	water soluble; moves readily in soil and water
<b>Aquatic Toxicity</b>	
LC <sub>50</sub> (Fish, 96hr)	400mg/liter (Onchorhynchus mykiss), 408mg/liter (Pimephales promelas) <sup>1</sup>
EC <sub>50</sub> (Crustacea, 24hr)	400 & 408mg/liter (Daphnia magna) <sup>1</sup>
EC <sub>50</sub> (Algae)	230mg/liter (Selenastrum capricornutum)
EC <sub>50</sub> (Bacteria)	not known – <i>rapid biodegradability suggests low level of harm to bacteria</i>

## 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>

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**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

**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*

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