

# Safety Data Sheet



Revision Date 15-Sep-2014  
Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** FORMULA 90  
**Product code** W.20294  
**Recommended Use** Cleaning agent

**Manufacturer** Chemspec  
 901 North Newkirk Street  
 Baltimore, MD 21205

**Emergency telephone number** Chemtrec: 1-800-424-9300 for US  
 +1 703-527-3887 outside US

## 2. Hazards identification

### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

### Potential Health Effects

#### Acute toxicity

**Eyes** May cause eye irritation.

**Skin** May cause skin irritation.

**Inhalation** No known effect based on information supplied.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Effects** No known effect based on information supplied.

**Aggravated Medical Conditions** None known.

**Environmental hazard** See Section 12 for additional Ecological Information.

## 3. Composition/information on ingredients

Component	CAS-No	Weight %
Ethoxylated Lauryl Alcohol 9002-92-0 ( 1-10 )	9002-92-0	1-10
TRISODIUM NTA 5064-31-3 ( 0.1-1 )	5064-31-3	0.1-1

## 4. First aid measures

**General advice** Show this material safety data sheet to the doctor in attendance.

**Eye contact** Remove contact lenses. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes.

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<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Gently wipe or rinse the inside of the mouth with water.
<b>Notes to physician</b>	Treat symptomatically.

### 5. Fire-fighting measures

<b>Flammable Properties</b>	Not flammable.
<b>Flash point</b>	>200 °F / >93 °C
<b>Suitable extinguishing media</b>	Water spray. Foam. Dry powder.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. Accidental release measures

<b>Personal precautions</b>	Use personal protective equipment.
<b>Environmental precautions</b>	No special environmental precautions required.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

### 7. Handling and storage

<b>Advice on safe handling</b>	Wear personal protective equipment.
<b>Technical measures/Storage conditions</b>	Use only in area provided with appropriate exhaust ventilation. Keep tightly closed in a dry and cool place.

### 8. Exposure controls/personal protection

<b>Exposure Guidelines</b>	.
<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems.
<b>Personal Protective Equipment</b>	
<b>Hand Protection</b>	Rubber gloves
<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin and body protection</b>	Skin and body protection.
<b>Respiratory protection</b>	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke.

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## 9. Physical and chemical properties

**Physical state** Liquid  
**Appearance** Clear liquid  
**Odor** Roto-Brite  
**Color** Blue

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	9.0	
Boiling point/boiling range	Not Determined	
Flash Point	>93 °C / >200 °F	
Evaporation rate	no data available	
Explosion Limits		
upper		
lower		
Vapor pressure	no data available	
Vapor density	no data available	
Specific Gravity	1.080	
Viscosity, kinematic	no data available	
Water solubility	completely soluble	
Partition coefficient: n-octanol/water	no data available	
Explosive properties	no data available	

### Other information

**Volatile organic compounds (VOC) content** < 1%

**Melting/freezing point**

**Freezing Point**

Not Determined

## 10. Stability and reactivity

**Stability/Reactivity** Stable under normal conditions.

**Incompatible products** Strong oxidizing agents. Strong acids.

**Conditions to Avoid** Direct sources of heat.

**Hazardous Decomposition Products** Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. Toxicological information

### Acute toxicity

**Product Information** The product itself has not been tested.

### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
TRISODIUM NTA	920 mg/kg ( Rat )		5 mg/L ( Rat ) 4 h

### Chronic toxicity

**Chronic toxicity** No information available

### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
TRISODIUM NTA		Group 2B		X	

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IARC: (International Agency for Research on Cancer)  
 Group 2B - Possibly Carcinogenic to Humans  
 OSHA: (Occupational Safety & Health Administration)  
 X - Present

**Target Organ Effects** None known.

**12. Ecological information**

**Ecotoxicity**

No information available. .

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms	Toxicity to other organisms
TRISODIUM NTA		LC50: 96 h Pimephales promelas 93 - 170 mg/L flow-through LC50: 96 h Lepomis macrochirus 175 - 225 mg/L static LC50: 96 h Lepomis macrochirus 252 mg/L LC50: 96 h Pimephales promelas 470 mg/L static LC50: 96 h Oryzias latipes 560 - 1000 mg/L LC50: 96 h Oryzias latipes 560 - 1000 mg/L semi-static LC50: 96 h Oncorhynchus mykiss 72 - 133 mg/L static LC50: 96 h Poecilia reticulata 560 - 1000 mg/L semi-static LC50: 96 h Poecilia reticulata 560 - 1000 mg/L LC50: 96 h Pimephales promelas 114 mg/L	LC50: 48 h Daphnia magna 560 - 1000 mg/L		

**Persistence and degradability** No information available.

**Bioaccumulation** .

**Mobility** No information available.

**Other adverse effects** Discharge into the environment must be avoided.

**13. Disposal considerations**

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**US EPA Waste Number** D002

**California Hazardous Waste Codes** 561

**14. Transport information**

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<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG</u></b>	Not regulated
<b><u>RID</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b>Hazard class</b>	III
<b>Packing Group</b>	V
<b><u>ADN</u></b>	Not regulated

**15. Regulatory information**

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
 "-" - Unknown. Not listed.

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X

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COPPER(II) NITRATE	100 lb	X		X
Copper (as Cu Dust & Mists)		X	X	
C.I. Direct Blue 86		X		

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
COPPER(II) NITRATE	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Copper (as Cu Dust & Mists)	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product may contain substance(s) which are known to the State of California to cause cancer or reproductive harm.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	X	X	X		
C.I. Direct Blue 86		X	X		

**International Regulations****Mexico - Grade**

Slight risk, Grade 1

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

D2A Very toxic materials

**16. Other information**

<b>NFPA</b>	Health Hazard 1	Flammability 0	Stability/Reactivity 0	Physical and chemical hazards - Personal protection -
<b>HMIS</b>	Health Hazard 1	Flammability 0	Physical Hazard 0	

**Prepared By** Chemspec Regulatory Affairs/Product Safety

**Revision Date** 15-Sep-2014

**Revision Note** No information available.

**Legend:**

**NIOSH IDLH: Immediately Dangerous to Life or Health**

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**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Material Safety Data Sheet**