

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

5. Fire-fighting measures

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

6. Accidental release measures

Personal precautions	Use personal protective equipment.
Environmental precautions	No special environmental precautions required.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	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

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

8. Exposure controls/personal protection

Exposure Guidelines	.
Engineering Measures	Showers Eyewash stations Ventilation systems.
Personal Protective Equipment	
Hand Protection	Rubber gloves
Eye/Face Protection	Safety glasses with side-shields.
Skin and body protection	Skin and body protection.
Respiratory protection	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Hygiene measures	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 (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), 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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<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
Hazard class	III
Packing Group	V
<u>ADN</u>	Not regulated

15. Regulatory information

International Inventories

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

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	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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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