



Shenzhen Sinsche Technology Co.,Ltd

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zinc Reagent R1

Supplier: Shenzhen Sinsche Technology Co.,Ltd.

ADD: 4/F , T3 Building, Silicon Valley Compound, Qingquan Road, Longhua Street, Longhua District, Shenzhen City, P.RC 518109.

Tel: +86 (755) 82127315 Fax: +86 (755) 82127860

Email:Sinsche@sinsche.com

Emergency telephone: +86 (755) 82127315 (Mon-Fri 08:30- 18:00)

Chemical Name: Not applicable

CAS No.: Not applicable

Chemical Formula: Not applicable

Chemical Family: Not applicable

PIN: NA

Intended Use: Determination of Ozone

Date of MSDS Preparation:

Day: 21

Month: June

Year: 2020

2 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content
Sodium Metaphosphate	233-343-1	10124-56-8	>50%
tri-Ammonium Citrate	222-394-5	3458-72-8	<40%
Sodium Diethyldithiocarbamate Trihydrate	unlisted	20624-25-3	<0.5%

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

Section 3 - HAZARDS IDENTIFICATION

CHS Classification

Most Important Hazards

According to ABNT NBR 14725-2

Skin corrosion/irritation	Category 2- (315)
Serious eye damage/eye irritation	Category 2A- (H319)



Hazard statements

H315-Causes skin irritation

H319-Causes serious eye irritation

Precautionary statement

P280- Wear protective gloves/protective clothing/eye protection/face protection

P302+P352-IF ON SKIN:Wash with plenty of water and soap

P332+P313-If skin irritation occurs: Get medical advice/attention

P362+P364-Take off all contaminated clothing and wash it before reuse

P305+P351+P338-IF IN EYES:Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do .Continue rinsing

P337+P313-If eye irritation persists:Get medical advice/attention

Other Hazards Known

Not applicable

➤ Section 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

➤ Section 5 - FIRE FIGHTING MEASURES



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General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Runoff from fire control or dilution water may cause pollution.

Extinguishing Media:

For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Use agent most appropriate to extinguish fire.

🔥 Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

Provide ventilation.

🔥 Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing.

Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

🔥 Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 10124-56-8: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if



exposure limits are exceeded or if irritation or other symptoms are experienced.

🔗 Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: colorless to white

Odor: odorless

pH: 6.0-7.7 solution.

Vapor Pressure: Not applicable.

Viscosity: Not applicable.

Boiling Point: Not applicable.

Freezing/Melting Point: 1184 deg F

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Soluble in water.

Specific Gravity/Density: Not available

Molecular Formula:mixture

Molecular Weight: Not available

🔗 Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials:

Oxidizing agents.

Hazardous Decomposition Products:

Oxides of phosphorus, irritating and toxic fumes and gases, toxic fumes of sodium oxide.

Hazardous Polymerization: Has not been reported.

🔗 Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 10124-56-8: OY3675000 LD50/LC50:

CAS# 10124-56-8: Oral, mouse: LD50 = 4320 mg/kg; Oral, rat: LD50 = 6200 mg/kg.

Carcinogenicity:

Sodium Metaphosphate - Not listed by ACGIH, IARC, or NTP.

Other:



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See actual entry in RTECS for complete information.

➤ Section 12 - ECOLOGICAL INFORMATION

➤ Section 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

➤ Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

IMO

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

RID/ADR

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing group:

USA RQ: CAS# 10124-56-8: 5000 lb final RQ (Listed under Sodium phosphate, tribas)

➤ Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 10124-56-8: 1



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Canada

CAS# 10124-56-8 is listed on Canada's DSL List.

CAS# 10124-56-8 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 10124-56-8 is listed on the TSCA inventory.



Shenzhen Sinsche Technology Co.,Ltd

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zinc Reagent R2

Supplier: Shenzhen Sinsche Technology Co.,Ltd.

ADD: 4/F , T3 Building, Silicon Valley Compound, Qingquan Road, Longhua Street, Longhua District, Shenzhen City, P.RC 518109.

Tel: +86 (755) 82127315 Fax: +86 (755) 82127860

Email:Sinsche@sinsche.com

Emergency telephone: +86 (755) 82127315 (Mon-Fri 08:30- 18:00)

Chemical Name: Not applicable

CAS No.: Not applicable

Chemical Formula: Not applicable

Chemical Family: Not applicable

PIN: NA

Intended Use: Determination of Ozone

Date of MSDS Preparation:

Day: 21

Month: June

Year: 2020

2 -COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content
Ammonium Chloride		12125-02-9	<10%
Ammonium hydroxide	231-635-3	1336-21-6	<10%
Demineralized Water	231-791-2	7732-18-5	<80%

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

3 - HAZARDS IDENTIFICATION



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CHS Classification

Most Important Hazards

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Acute aquatic toxicity	Category2

Label elements

Signal word - Danger

Hazard statements

H314 - Causes severe skin burns and eye damage

H401 - Toxic to aquatic life



Corrosion

Precautionary statements

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P273 - Avoid release to the environment

Other Hazards Known

Not applicable

➤ Section 4 - FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Skin:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion:



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If swallowed, do not induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

After inhalation exposure, observe for 24 to 72 hours as pulmonary edema may be delayed.

➤ Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Aqueous solutions containing <5% ammonia do not produce flammable vapors at any temperature.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

➤ Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Neutralize spill with a weak acid such as vinegar or acetic acid. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

Approach spill from upwind.

➤ Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Keep container tightly closed. Avoid breathing vapor. Do not get in eyes. Avoid contact with skin and clothing.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Isolate from oxidizing materials and acids. Walls, floors, shelving, fittings, lighting and ventilation systems in storage area should be made from carbon steel or stainless steel which do not react with ammonium hydroxide.



➤ Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Exposure Limits CAS# 1336-21-6: CAS# 7664-41-7: United Kingdom, WEL - TWA: 25 ppm TWA (anhydrous); 18 mg/m³ TWA (anhydrous) United Kingdom, WEL - STEL: 35 ppm STEL (anhydrous); 25 mg/m³ STE (anhydrous) United States OSHA: 50 ppm TWA; 35 mg/m³ TWA Belgium - TWA: 20 ppm VLE; 14 mg/m³ VLE Belgium - STEL: 50 ppm VLE; 36 mg/m³ VLE France - VME: 25 ppm VME; 18 mg/m³ VME France - VLE: 50 ppm VLE; 36 mg/m³ VLE Germany: 50 ppm TWA; 35 mg/m³ TWA Japan: 25 ppm OEL; 17 mg/m³ OEL Malaysia: 25 ppm TWA; 17 mg/m³ TWA Netherlands: 50 ppm STEL; 36 mg/m³ STEL Netherlands: 20 ppm MAC; 14 mg/m³ MAC Russia: 20 mg/m³ TWA Spain: 20 ppm VLA-ED; 14 mg/m³ VLA-ED Spain: 50 ppm VLA-EC; 36 mg/m³ VLA-EC CAS# 7732-18-5: Personal Protective Equipment Eyes: Wear chemical splash goggles and face shield.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

➤ Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: colorless

Odor: strong odor - ammonia-like

pH: alkaline

Vapor Pressure: < 112.5 mm Hg @ 20 deg C

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: -2.9 deg C

Autoignition Temperature: 651 deg C (1,203.80 deg F)

Flash Point: Not applicable.

Explosion Limits, lower: 15%

Explosion Limits, upper: 28%

Decomposition Temperature: Not available.

Solubility in water: Soluble.

Specific Gravity/Density: Not available.

Molecular Formula: solution



Molecular Weight: Not available.

🔗 Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

High temperatures, confined spaces, Ammonia solutions are corrosive to copper, zinc, aluminum and their alloys..

Incompatibilities with Other Materials:

Strong oxidizing agents, acids, acrolein, halogens, mercury, hypochlorite, silver nitrate, acrylic acid, dimethyl sulfate, silver oxide.

Hazardous Decomposition Products:

Nitrogen oxides (NO_x) and ammonia (NH₃).

Hazardous Polymerization: Will not occur.

🔗 Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 1336-21-6: BQ9625000 CAS# 7664-41-7: BO0875000 CAS# 7732-18-5: ZC0110000
LD50/LC50:

CAS# 1336-21-6: Draize test, rabbit, eye: 250 ug Severe; Draize test, rabbit, eye: 44 ug Severe; Oral, rat: LD50 = 350 mg/kg.

CAS# 7664-41-7: Inhalation, mouse: LC50 = 4230 ppm/1H; Inhalation, mouse: LC50 = 4600 mg/m³/2H; Inhalation, rabbit: LC50 = 7 gm/m³/1H; Inhalation, rat: LC50 = 2000 ppm/4H; Inhalation, rat: LC50 = 18600 mg/m³/5M; Inhalation, rat: LC50 = 7040 mg/m³/30M; Skin, rat: LD50 = 112000 mg/m³/15M; Skin, rat: LD50 = 71900 mg/m³/30M; Skin, rat: LD50 = 4840 mg/m³/60M.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

Carcinogenicity:

Ammonium hydroxide - Not listed by ACGIH, IARC, or NTP.

Ammonia - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

🔗 Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: Rainbow trout: LC50 = 0.008 mg/L; 24 Hr.; UnspecifiedFish: Fathead Minnow: LC50 = 8.2 mg/L; 96 Hr.; UnspecifiedFish: Bluegill/Sunfish: LC50 = 0.024-0.093 mg/L; 48 Hr.;

UnspecifiedWater flea Daphnia: EC50 = 0.66 mg/L; 48 Hr.; 22 degrees C



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➤ Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

➤ Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: AMMONIA SOLUTIONS

Hazard Class: 8

UN Number: 2672

Packing Group: III

IMO

Shipping Name: AMMONIA SOLUTIONS

Hazard Class: 8

UN Number: 2672

Packing Group: III

RID/ADR

Shipping Name: AMMONIA SOLUTIONS

Hazard Class: 8

UN Number: 2672

Packing group: III

USA RQ: CAS# 1336-21-6: 1000 lb final RQ; 454 kg final RQ

USA RQ: CAS# 7664-41-7: 100 lb final RQ; 45.4 kg final RQ

➤ Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 1336-21-6: 2

CAS# 7664-41-7: 2

CAS# 7732-18-5: No information available.

Canada

CAS# 1336-21-6 is listed on Canada's DSL List.

CAS# 7664-41-7 is listed on Canada's DSL List.

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 1336-21-6 is listed on Canada's Ingredient Disclosure List.

CAS# 7664-41-7 is listed on Canada's Ingredient Disclosure List.

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.



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US FEDERAL

TSCA

CAS# 1336-21-6 is listed on the TSCA inventory.

CAS# 7664-41-7 is listed on the TSCA inventory.

CAS# 7732-18-5 is listed on the TSCA inventory.



Shenzhen Sinsche Technology Co.,Ltd

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zinc Reagent R3

Supplier: Shenzhen Sinsche Technology Co.,Ltd.

ADD: 4/F , T3 Building, Silicon Valley Compound, Qingquan Road, Longhua Street, Longhua District, Shenzhen City, P.RC 518109.

Tel: +86 (755) 82127315 Fax: +86 (755) 82127860

Email:Sinsche@sinsche.com

Emergency telephone: +86 (755) 82127315 (Mon-Fri 08:30- 18:00)

Chemical Name: Not applicable

CAS No.: Not applicable

Chemical Formula: Not applicable

Chemical Family: Not applicable

PIN: NA

Intended Use: Determination of Ozone

Date of MSDS Preparation:

Day: 21

Month: June

Year: 2020

2 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content
OP	231-659-4	7681-11-0	10-20%
PAN	unlisted	9002-93-1	0.5-1%
Alcohol	200-578-6	64-17-5	80-90%

Hazard Symbols: XN

Risk Phrases: 22 41

3 - HAZARDS IDENTIFICATION

CHS Classification

Most Important Hazards

Acute toxicity - Dermal	Category 5
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 1B
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 1

Label elements

Signal word - Danger

Hazard statements

H313 - May be harmful in contact with skin

H318 - Causes serious eye damage



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H360 - May damage fertility or the unborn child

H401 - Toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects



Health hazard

Corrosion

Environment

Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P201 - Obtain special instructions before use

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P273 - Avoid release to the environment

P391 - Collect spillage

Other Hazards Known

Not applicable

4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial



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respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Antidote: None reported.

5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media:

Water or foam may cause frothing. Use water spray, dry chemical, carbon dioxide, or chemical foam.

6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage:

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 9002-93-1: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:



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Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Viscous liquid

Color: red

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: 240 cP 25 deg C

Boiling Point: 270 deg C @ 760.00m

Freezing/Melting Point: 6 deg C

Autoignition Temperature: Not available.

Flash Point: 274 deg C (525.20 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: ethylene glycol, ethyl ether, ethyl alco

Specific Gravity/Density: Not available.

Molecular Formula:solution

Molecular Weight: Not available.

10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Light, exposure to air, exposure to moist air or water.

Incompatibilities with Other Materials:

Strong oxidizing agents - strong reducing agents - high temperatures.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 9002-93-1: MD0907700 YM0616666 YM0683332 LD50/LC50:

CAS# 9002-93-1: Draize test, rabbit, eye: 10 uL/24H Moderate; Draize test, rabbit, skin: 500 uL/24H Mild; Oral, rat: LD50 = 1800 mg/kg; Oral, rat: LD50 = 3800 mg/kg; Oral, rat: LD50 = 1900 mg/kg.

Carcinogenicity:



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Ethoxylated p-tert-octylphenol - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Fish-toxicity: Bluegill TL(96H): Dynamic Bioassay: >10 mg/l Static Bioassay: 12 mg/l

13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

14 - TRANSPORT INFORMATION

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

R 41 Risk of serious damage to eyes.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 39 Wear eye/face protection.

WGK (Water Danger/Protection)

CAS# 9002-93-1: 1

Canada

CAS# 9002-93-1 is listed on Canada's DSL List.

CAS# 9002-93-1 is listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 9002-93-1 is listed on the TSCA inventory.