

SAFETY DATA SHEET

Revision date 2016-04-05 Revision number 3

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name Hyonic® OP-90

Product code 1525

Synonyms Nonionic surfactant.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use [RU] No information available

Uses advised against None known

1.3 Details of the supplier of the safety data sheet

Supplier GEO Specialty Chemicals, Inc.

701 Wissahickon Avenue Cedartown, GA 30125 +1-770-748-1200

Hours: Monday-Friday 9:00-5:00 EST (Eastern Standard Time)

Responsibility Statement For further information, please contact safety-data-sheet-fp@geosc.com

1.4 Emergency telephone number

Emergency telephone 24 Hour Emergency Phone Number

GEO Specialty Chemicals UK Ltd

+44 (0)23 80891806

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Acute oral toxicity	Category 4
Serious eye damage/eye irritation	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

2.2 Label elements



Signal word DANGER

Hazard statements H302 - Harmful if swallowed

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid release to the environment

Wear eye/face protection

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth Collect spillage

Disposal Dispose of contents/container to an approved waste disposal plant

2.3 Other hazards which do not result in classification

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Component	Common name	CAS-No	weight-%
Ethoxylated Octylphenol, Branched	Ethoxylated Octylphenol, Branched	9002-93-1	> 75%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact

Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical advice immediately.

Skin contact Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove

contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin

irritation occurs: Get medical advice/attention.

Ingestion Do NOT induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never

give anything by mouth to an unconscious person. Get medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

1525 -Hyonic® OP-90

Revision date 2016-04-05

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and

effects

Risk of serious damage to eyes.

Aggravated Medical Conditions Eye ailments. Dermal ailments. Lung conditions.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water mist Carbon dioxide (CO2) Foam Dry chemical

Extinguishing media which must not be used for safety reasons

No information available.

5.2 Special hazards arising from the substance or mixture

Special Hazard Collect contaminated fire extinguishing water separately. This must not be discharged into

drains. Fire residues and contaminated fire extinguishing water must be disposed of in

accordance with local regulations.

Hazardous combustion products Carbon oxides.

5.3 Advice for firefighters

Special protective equipment for

firefighters

Full protective clothing and approved self-contained breathing apparatus required for

firefighting personnel.

Firefighting measures Cool exposed containers with water spray after extinguishing fire. Use self-contained

breathing apparatus in confined areas.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective clothing and gloves.

6.2 Environmental precautions

Environmental precautions Do not permit run-off to get into sewers or surface waterways.

6.3 Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Clean up large spills with vacuum truck. Use a non-combustible material like vermiculite,

> sand or earth to soak up the product and place into a container for later disposal. Spills of solution are extremely slippery so all residue must be removed promptly. Provide adequate

ventilation to spill area.

6.4 Reference to other sections

See Section 12 for additional Ecological Information

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Warm to 122° F (50° C) and mix well before using.

Avoid contact with eyes, skin and clothing

Personal protective equipment comprising: suitable protective gloves, safety goggles and

protective clothing.

Wash thoroughly after handling Avoid breathing vapors, mist or gas.

Use with adequate ventilation and employ respiratory protection where mist or vapors may

be generated.

Do not take internally

Keep container closed when not in use

FOR INDUSTRIAL USE ONLY.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage Keep at temperatures between 15 and 49 °C (59 and 120 °F)

conditions Product may congeal or stratify if cold.

Materials to avoid Strong acids and bases. Strong oxidizing agents. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit value

Component	Ministry of Labor (Republic of Korea, 3/2012)	ACGIH TLV
Ethoxylated Octylphenol, Branched	NAV	NAV
9002-93-1		

Legend NAV - Not available

8.2 Appropriate engineering controls

Environmental exposure controls No information available

8.3 Personal Protective Equipment

Eye/face Protection Wear chemical splash goggles and face shield (when eye and face contact is possible due

to splashing or spraying of material).

Hand Protection Appropriate chemical resistant gloves should be worn.

Skin and body protection Rubber or plastic gloves

Respiratory protection None required under normal conditions of use. NIOSH/MSHA-approved respirator if

necessary. Follow manufacturer's recommendations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state liquid
Color light yellow

Odor

Odor threshold No information available

pH 6.5 - 7.5 - aqueous solution (2%)

slight odor

Melting / freezing point

No information available

Boiling point / boiling range > 200 °C / > 392 °F

Flash point > 93 °C / 200 °F - CC (closed cup)

Evaporation rate No information available

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit

No information available

No information available

Vapor pressure No information available

Vapor density No information available

Specific gravity 1.00 - typical

Solubility(ies)

Solubility (water) Soluble

Solubility in other solvents No information available

Autoignition temperature No information available

Decomposition temperature No information available

Viscosity

Kinematic viscosity

No information available

No information available

Molecular weight No information available

Density 8.3 lb/gal - typical

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity No information available.

10.2 Chemical stability

Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization Hazardous polymerization does not occur.

10.4 Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame.

10.5 Incompatible materials

Materials to avoid Strong acids and bases. Strong oxidizing agents. Strong reducing agents.

10.6 Hazardous decomposition products

Hazardous decomposition

products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Acute health hazard

Inhalation Inhalation of mist causes irritation of respiratory system.

Eye contact Risk of serious damage to eyes. May cause severe eye irritation with tearing, redness, and

stinging.

Skin contact None to only slight irritation expected.

Ingestion Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

11.2 Health hazards

Acute toxicity - Product Information

Oral LD50 > 300 - <= 2000 mg/kg

Dermal LD50 No information available

Inhalation LC50 No information available

Skin corrosion/irritation Not irritating

Serious eye damage/eye irritation Risk of serious damage to eyes

Sensitization Dermal sensitization: non-sensitizing

Germ cell mutagenicity No information available

Carcinogenicity No information available

Reproductive toxicity No information available

Specific target organ toxicity -

Single exposure

No information available

Specific target organ toxicity -

Repeated exposure

No information available

Aspiration hazard No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute aquatic toxicity - Product Information

Fish No information available

Crustacea No information available

Algae/aquatic plants

No information available

12.2 Persistence and degradability

Persistence and degradability No information available

12.3 Bioaccumulative potential

Bioaccumulative potential No information available

12.4 Mobility in soil

Mobility No information available

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Other information No other ecological studies have been carried out on this product.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal of wastes Avoid landfilling liquids. Do not put solutions containing this product into sewer systems.

Dispose of via incineration (or other approved methods) in accordance with national and

local regulations.

Contaminated packaging Since empty containers retain product residue, follow label warnings even after container is

emptied

14. TRANSPORT INFORMATION

US DOT

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTYL PHENOL

ETHOXYLATED)

14.3. Transport hazard class(es) 9

14.4. Packing group III

14.5. Environmental hazards Yes

ERG Number 171

Land transport (ADR/RID)

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTYL PHENOL ETHOXYLATED)

14.3. Transport hazard class(es) 914.4. Packing group III

14.5. Environmental hazards Yes

Inland waterway transport (ADN)

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTYL PHENOL ETHOXYLATED)

14.3. Transport hazard class(es) 9

14.4. Packing group III

14.5. Environmental hazards Yes

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTYL PHENOL ETHOXYLATED)

14.3. Transport hazard class(es) 9

14.4. Packing group III

14.5. Environmental hazards Yes ERG Code 9L

Sea transport (IMDG)

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTYL PHENOL ETHOXYLATED)

14.3. Transport hazard class(es) 9

14.4. Packing group III

14.5. Environmental hazards Yes EmS F-A; S-F

·

14.6 Special precautions for user

No information available

<u>Harmonized Tariff Number</u> 3402.13

15. REGULATORY INFORMATION

15.1 Industrial Safety and Health Law

ISHA Article 37 None of the components are listed.

ISHA Article 38 None of the components are listed.

Component	ISHA - Substances to be	ISHA - Substances to be	ISHA - Substances to be	
	controlled - Acids and bases	controlled - Metals	controlled - Organic Substances	
Ethoxylated Octylphenol, Branched	Not applicable	Not applicable	Not applicable	

Component	ISHA - Harmful factors subject to	ISHA - Harmful factors subject to	ISHA - Harmful factors subject to
	special health check-up - Acids	special health check-up - Metals	special health check-up - Organic
	and bases		Substances
Ethoxylated Octylphenol, Branched	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful agents subject to	ISHA - Harmful agents subject to	ISHA - Harmful agents subject to
	Work Environment Measuring -	Work Environment Measuring -	Work Environment Measuring -
	Acids and bases	Metals	Organic Substances
Ethoxylated Octylphenol, Branched	Not applicable	Not applicable	Not applicable

Occupational exposure limits See section 8 for more information

15.2 Toxic Chemicals Control Law

Revision date 2016-04-05

Component	TCCA - Toxic Chemicals	TCCA - Observational Chemicals	TCCA Article 32 (Banned)	TCCA Article 32 (Restricted)	Accident Precaution Chemicals
Ethoxylated Octylphenol, Branched	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

15.3 Dangerous Substances Safety Management Act

Not classified

15.4 Wastes Management

Dispose of contents/container in accordance with all local, regional, national, and international regulations.

15.5 Other information

International Inventories

Australia (AICS)

All ingredients are on the inventory or exempt from listing

Canada (DSL)

All ingredients are on the inventory or exempt from listing

Canada (NDSL)

None of the ingredients are on the inventory.

China (IECSC)

All ingredients are on the inventory or exempt from listing

EINECS (European Inventory of Existing Chemical Substances)

All ingredients are on the inventory or exempt from listing

ELINCS (European List of Notified Chemical Substances)

None of the ingredients are on the inventory.

ENCS (Japan)

All ingredients are on the inventory or exempt from listing

South Korea (KECL)

All ingredients are on the inventory or exempt from listing

Philippines (PICCS)

All ingredients are on the inventory or exempt from listing

TSCA (United States)

All ingredients are on the inventory or exempt from listing

Legend

AICS - Australian Inventory of Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - China Inventory of Existing Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

16. OTHER INFORMATION

Product code 1525

Revision date 2016-04-05

•

Key or legend to abbreviations and acronyms used in the safety data sheet

NAV - Not available

Additional information

None

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text