



SAFETY DATA SHEET

Preparation Date: 1/04/2017 Revision date 10/2/2019 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: T1276

Product Name: TERGITOL(R) NP-4, SURFACTANT

Other means of identification

Synonyms: No information available

CAS #: 127087-87-0

RTECS # RB2451000 or TR1581962

CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:Uses advised against
No information available.
No information available.

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Label elements

Warning

Hazard statements

Causes skin irritation Causes serious eye irritation Harmful if swallowed Harmful in contact with skin

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves Wear eye/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

IF ON SKIN: Wash with plenty of water

Call a POISON CENTER or physician if you feel unwell

If skin irritation occurs: Get medical attention

Take off contaminated clothing and wash it before reuse

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

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Nonylphenol polyethylene glycol ether	127087-87-0	>=97
Polyethylene Glycol	25322-68-3	<=3
Dinonylphenyl polyoxyethylene	9014-93-1	<=3
Ethylene oxide	75-21-8	<=0.0020
1,4-Dioxane	123-91-1	<=0.0015
Acetaldehyde	75-07-0	<=0.0006
Formaldehyde	50-00-0	<=0.0004

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a

physician immediately.

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Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Öbtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation

Causes skin irritation May affect the liver

May cause irritation of respiratory tract

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry powder. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion productsCarbon Monoxide, Carbon Dioxide.

Specific hazards May be combustible at high temperatures.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing.

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all

sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Absorb spill with inert material (e.g.

vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning upUse appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Use only non-sparking tools. Clean contaminated surface

thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials. Remove all sources of ignition.

Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents Strong bases Strong acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Nonylphenol polyethylene glycol ether	127087-87-0	None	None	None	None
Polyethylene Glycol	25322-68-3	None	None	None	10 mg/m³ TWA
Dinonylphenyl	9014-93-1	None	None	None	None

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polyoxyethylene					
Ethylene oxide	75-21-8	1 ppm TWA 5 ppm STEL	0.1 ppm TWA 0.18 mg/m³ TWA 5 ppm Ceiling 10 min/day 9 mg/m³ Ceiling 10 min/day	1 ppm TWA	None
1,4-Dioxane	123-91-1	100 ppm TWA 360 mg/m³ TWA	1 ppm Ceiling 3.6 mg/m³ Ceiling	20 ppm TWA	Not determined
Acetaldehyde	75-07-0	200 ppm TWA 360 mg/m³ TWA	None	= 25 ppm Ceiling	None
Formaldehyde	50-00-0	0.75 ppm TWA 2 ppm STEL	0.016 ppm TWA 0.1 ppm Ceiling 15 min	0.3 ppm STEL 0.1 ppm TWA	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Nonylphenol polyethylene glycol ether	127087-87-0	None	None	None	None
Polyethylene Glycol	25322-68-3	None	None	None	None
Dinonylphenyl polyoxyethylene	9014-93-1	None	None	None	None
Ethylene oxide	75-21-8	1 ppm TWA 1.8 mg/m³ TWA	0.1 ppm TWA 1 ppm STEL	1 ppm TWA 1.8 mg/m³ TWA 10 ppm STEL 18 mg/m³ STEL	1 ppm TWAEV 1.8 mg/m³ TWAEV
1,4-Dioxane	123-91-1	20 ppm TWA 72 mg/m³ TWA	20 ppm TWA	None	20 ppm TWAEV 72 mg/m³ TWAEV
Acetaldehyde	75-07-0	= 25 ppm Ceiling = 45 mg/m ³ Ceiling	= 25 ppm Ceiling	25 ppm Ceiling	25 ppm Ceiling 45 mg/m³ Ceiling
Formaldehyde	50-00-0	1 ppm Ceiling 1.3 mg/m³ Ceiling 0.75 ppm TWA 0.9 mg/m³ TWA	0.3 ppm TWA 1 ppm Ceiling	1.5 ppm Ceiling 1 ppm STEL	2 ppm Ceiling 3 mg/m³ Ceiling

Australia and Mexico

Component	CAS No	Australia	Mexico
Nonylphenol polyethylene glycol ether	127087-87-0	None	None
Polyethylene Glycol	25322-68-3	None	None
Dinonylphenyl polyoxyethylene	9014-93-1	None	None
Ethylene oxide	75-21-8	1 ppm TWA 1.8 mg/m³ TWA	1 ppm TWA 2 mg/m³ TWA
1,4-Dioxane	123-91-1	10 ppm TWA 36 mg/m³ TWA	25 ppm TWA 90 mg/m³ TWA 100 ppm STEL 360 mg/m³ STEL
Acetaldehyde	75-07-0	91 mg/m³ STEL 50 ppm STEL 20 ppm TWA 36 mg/m³ TWA	= 25 ppm Peak = 45 mg/m³ Peak
Formaldehyde	50-00-0	1 ppm/1.2 mg/m³ TWA 2 ppm/2.5 mg/m³ STEL probable carcinogen	2 ppm Ceiling 3 mg/m³ Ceiling

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

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Personal Protective Equipment

Goggles Eye protection:

Long sleeved clothing Skin and body protection:

Chemical resistant apron

Gloves

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room

> ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and **Hygiene measures:**

immediately after handling the product When using, do not eat, drink or smoke.

Lower Explosion Limit (%):

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid No information available. Yellow. Light yellow.

Odor: Taste **Formula**

No information available. No information available. C15H24O(C2H4O)x

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

Av. M.W. = 400 no data available 218 °C/424 °F

Flash Point Tested according to: Autoignition Temperature (°C/°F):

Not available

No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available No information available No information available

Boiling point/range(°C/°F): **Bulk density:** Density (g/cm3):

>200 °C/>392 °F No information available No information available

Vapor pressure @ 20°C (kPa): Specific gravity:

1.027-1.029 No information available pH (1% solution) = 5.0-8.0

Vapor density: **Evaporation rate:** VOC content (q/L):

No information available No information available No information available

Partition coefficient Odor threshold (ppm): Viscosity:

No information available No information available (n-octanol/water):

No information available

Miscibility: Solubility:

No information available Very slightly soluble in water

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

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Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Strong bases Strong acids

Hazardous decomposition

products:

No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Eyes. Ingestion. Inhalation. Skin.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document Component Information

Nonylphenol polyethylene glycol ether

CAS No 127087-87-0

LD50/oral/rat = 1310 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = 2000-2991 mg/kg

LD50/dermal/rat = No information available

LC50/inhalation/rat = 1.15 mg/l (dust/mist) LC50 4 h

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Polyethylene Glycol

CAS No 25322-68-3

LD50/oral/rat = 22 g/kg Oral LD50 Rat; 28 g/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = > 20 mL/kg; > 20 g/kg

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Dinonylphenyl polyoxyethylene

CAS No 9014-93-1

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

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SURFACTANT

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Ethylene oxide

CAS No 75-21-8

LD50/oral/rat = 72 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = 800 ppm Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

1,4-Dioxane

CAS No 123-91-1

LD50/oral/rat = 5170 mg/kg Oral LD50 Rat; 4200 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = 7600 µL/kg Dermal LD50Rabbit

LD50/dermal/rat = No information available

LC50/inhalation/rat = 46 g/m³ Inhalation LC50 Rat 2 h

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Acetaldehyde

CAS No 75-07-0

LD50/oral/rat = 660 mg/kg Oral LD50 Rat

LD50/oral/mouse = 900 mg/kg

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = 13300 ppm Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = 23000 mg/m³ 4hr.

Other LD50 or LC50information = No information available

Formaldehyde

CAS No 50-00-0

LD50/oral/rat = 100 mg/kg Oral LD50 Rat

LD50/oral/mouse = 500 mg/kg (RTECS)

385 mg/kg (RTECS) 42 mg/kg (RTECS)

LD50/dermal/rabbit = 270 mg/kg Dermal LD50Rabbit

LD50/dermal/rat = No information available

LC50/inhalation/rat = 0.578 mg/L Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = 260 mg/kg oral LD50 Guinea Pig

Product Information

LD50/oral/rat =

Value - Acute Toxicity = No information available

LD50/oral/mouse =

Value - Acute Tox = No information available

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

VALUE - Acute Tox = No information available

LC50/inhalation/rat

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VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. May be absorbed through the skin. Harmful in contact with

skin.

Eye Contact: Causes serious eye irritation. Causes conjunctivitis.

Inhalation Inhalation of mist or vapor may cause irritation of the nose and throat (upper

respiratoy tract.

Ingestion Harmful if swallowed. May affect liver.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect the liver.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Nonylphenol polyethylene glycol ether	127087-87-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Polyethylene Glycol	25322-68-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Dinonylphenyl polyoxyethylene	9014-93-1	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Ethylene oxide	75-21-8	Monograph 100F [2012] Monograph 97 [2008] Monograph 60 [1994] overall evaluation upgraded from Group 2A to Group 1 based on mechanistic and other relevant data	Carcinogen	Carcinogen	Present see 29 CFR 1910.1047		Not listed
1,4-Dioxane	123-91-1	Group 2B - Possibly carcinogenic to humans -	A3 Confirmed Animal Carcinogen with Unknown	Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed

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			Relevance to Humans				
Acetaldehyde	75-07-0	Group 1 - Carcinogenic to Humans - Monograph 100E [2012] associated with consumption of alcoholic beverages Group 2B - Possibly Carcinogenic to Humans - Monograph 71 [1999] Supplement 7 [1987] Monograph 36 [1985]	Carcinogen	Anticipated To Be A Human Carcinogen		Not listed	Not listed
Formaldehyde	50-00-0	Group 1 -Carcinogenic to humans - Monograph 100F [2012] Monograph 88 [2006] Monograph 62 [1995] Supplement 7 [1987]	A1 Confirmed Human Carcinogen	Known Human Carcinogen	Present see 29 CFR 1910.1048	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposureSTOT - repeated exposure
No information available.
No information available.

Target Organs: Liver.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Polyethylene Glycol - 25322-68-3

Fish 5000 mg/L LC50 Carassius auratus 24 h 1

Ethylene oxide - 75-21-8

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Fish 73 - 96 mg/L LC50 Pimephales promelas 96 h 1 **Crustacea** 137 - 300 mg/L LC50 Daphnia magna 48 h

1,4-Dioxane - 123-91-1

Fish 10000 mg/L LC50 Lepomis macrochirus 96 h static 1 10000 mg/L LC50 Lepomis

macrochirus 96 h semi-static 1 9850 mg/L LC50 Pimephales promelas 96 h flow-through 1 10306 - 14742 mg/L LC50 Pimephales promelas 96 h static 1 9850

mg/L LC50 Pimephales promelas 96 h 1

Crustacea 163 mg/L EC50 water flea 48 h

Acetaldehyde - 75-07-0

Algae/aquatic plants 237 - 249 mg/L EC50 Nitzschia linearis 120 h

Fish 1.8-2.4 mg/L LC50 Oncorhynchus mykiss 96 h static 1

28.0-34.0 mg/L LC50 Pimephales promelas 96 h flow-through 1

39.8-46.8 mg/L LC50 Pimephales promelas 96 h static 1

53 mg/L LC50 Lepomis macrochirus 96 h static 1 3.64 - 6.15 mg/L EC50 Daphnia magna 48 h

48.3 mg/L EC50 Daphnia magna 48 h

Formaldehyde - 50-00-0

Crustacea

Fish 22.6 - 25.7 mg/L LC50 Pimephales promelas 96 h flow-through 1 1510 μg/L LC50

Lepomis macrochirus 96 h static 1 41 mg/L LC50 Brachydanio rerio 96 h static 1 0.032 - 0.226 mL/L LC50 Oncorhynchus mykiss 96 h flow-through 1 100 - 136 mg/L LC50 Oncorhynchus mykiss 96 h static 1 23.2 - 29.7 mg/L LC50 Pimephales

promelas 96 h static 1

Crustacea 2 mg/L LC50 Daphnia magna 48 h 11.3 - 18 mg/L EC50 Daphnia magna 48 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Nonylphenol polyethylene glycol ether	127087-87-0	None	None	None	None
Polyethylene Glycol	25322-68-3	None	None	None	None
Dinonylphenyl polyoxyethylene	9014-93-1	None	None	None	None
Ethylene oxide	75-21-8	None	None	None	U115 ignitable waste, toxic waste
1,4-Dioxane	123-91-1	None	None	None	U108
Acetaldehyde	75-07-0	None	None	None	U001 Ignitable waste
Formaldehyde	50-00-0	None	None	None	U122

14. TRANSPORT INFORMATION

DOT

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UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Class
Packing group:
No information available

Number

Marine Pollutant No data available

DOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements No information available
No information available
No information available
No information available

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Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Nonylphenol polyethylene glycol ether	127087-87-0	PresentACTIV E	Present KE-26246	Present	Present (7)-172	Present	Present	Not present
Polyethylene Glycol	25322-68-3	PresentACTIV E	Present KE-20228	Present	Present (7)-129	Present	Present	Not present
Dinonylphenyl polyoxyethylene	9014-93-1	PresentACTIV E	Present KE-11970	Present	Present (7)-273	Present	Present	Not present
Ethylene oxide	75-21-8	PresentACTIV E	Present KE-27537	Present	Present (2)-218	Present	Present	Present 200-849-9
1,4-Dioxane	123-91-1	PresentACTIV E	Present KE-10463	Present	Present (5)-839	Present	Present	Present 204-661-8
Acetaldehyde	75-07-0	Present(ACTI VE)	Present KE-00003	Present	Present (2)-485	Present	Present	Present 200-836-8
Formaldehyde	50-00-0	Present(ACTI VE)	Present KE-17074	Present	Present (2)-482	Present	Present	Present 200-001-8

U.S. Regulations

Polyethylene Glycol

Minnesota - Hazardous Substance List: Present

FDA - Direct Food Additives 21 CFR 172.210, 21 CFR 172.820, 21 CFR 173.310, 21 CFR 173.340 (molecular weight

200-9500)

FDA - 21 CFR - Total Food Additives 172.210, 172.820, 173.310, 173.340, 175.105, 175.300, 176.180, 178.3750, 73.1

- List Sourced from EAFUS (molecular weight 200-9500)

Ethylene oxide

Massachusetts RTK: Present

Massachusetts EHS: carcinogen; extraordinarily hazardous New Jersey RTK Hazardous Substance List: 0882

New Jersey (EHS) List: 0882 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

New Jersey TCPA - EHS: 2700lbTQ Pennsylvania RTK: Environmental hazard

Special hazardous substance

Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present

Michigan PSM HHC: = 5000 lb TQ

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

10 lb RQ

Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present

FDA - 21 CFR - Total Food Additives 172.710, 172.808, 175.105, 176.180, 176.210, 177.2470, 178.3520

- List Sourced from EAFUS

1,4-Dioxane

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 0789

New Jersey (EHS) List: 0789 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Special hazardous substance

Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

100 lb RQ 1 lb RQ

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Louisana Reportable Quantity List for Pollutants: 100lbfinal RQ

45.4kgfinal RQ

California Directors List of Hazardous Substances: Present

Acetaldehyde

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 0001

New Jersey (EHS) List: 0001 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

New Jersey TCPA - EHS: =4900lbTQ Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

= 1 lb RO

Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.60

FDA - 21 CFR - Total Food Additives 177.2410 182.60

- List Sourced from EAFUS

Formaldehyde

Massachusetts RTK: Present

Massachusetts EHS: carcinogen; extraordinarily hazardous New Jersey RTK Hazardous Substance List: 0946

New Jersey (EHS) List: 0946 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

New Jersey TCPA - EHS: 175lbTQ

15000lbTQ

Pennsylvania RTK: Environmental hazard

Special hazardous substance

Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present

Michigan PSM HHC: = 1000 lb TQ

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

100 lb RQ 1 lb RQ

Louisana Reportable Quantity List for Pollutants: 100lbfinal RQ

45.4kgfinal RQ
California Directors List of Hazardous Substances: Present

FDA - Direct Food Additives 21 CFR 173.340

FDA - 21 CFR - Total Food Additives 173.340, 175.105, 175.210, 175.300, 176.170, 176.180, 176.200, 177.1200, 177.2410,

- List Sourced from EAFUS 178.3120, 573.460

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

MARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

Chemicals Known to the State of California to Cause Reproductive Toxicity:

MARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Component	CAS No	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed	Not Listed	Not Listed	Not Listed
Polyethylene Glycol	25322-68-3	Not Listed	Not Listed	Not Listed	Not Listed
Dinonylphenyl polyoxyethylene	9014-93-1	Not Listed	Not Listed	Not Listed	Not Listed
Ethylene oxide	75-21-8	carcinogen		Male reproductive toxicity	female reproductive toxicity
1,4-Dioxane	123-91-1	carcinogen	Not Listed	Not Listed	Not Listed
Acetaldehyde	75-07-0	carcinogen	Not Listed	Not Listed	Not Listed
Formaldehyde	50-00-0	carcinogen	Not Listed	Not Listed	Not Listed

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CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Nonylphenol polyethylene glycol ether	127087-87-0	None	None	None	None	1.0 % de minimis concentration
Polyethylene Glycol	25322-68-3	None	None	None	None	None
Dinonylphenyl polyoxyethylene	9014-93-1	None	None	None	None	None
Ethylene oxide	75-21-8	10 lb final RQ 4.54 kg final RQ	1000 lb TPQ 10 lb EPCRA RQ	None	None	0.1 % de minimis concentration
1,4-Dioxane	123-91-1	100 lb final RQ 45.4 kg final RQ	None	None	None	0.1 % de minimis concentration
Acetaldehyde	75-07-0	= 1000 lb final RQ = 454 kg final RQ	None	None	None	0.1 % de minimis concentration
Formaldehyde	50-00-0	100 lb final RQ 45.4 kg final RQ	100 lb EPCRA RQ	None	None	0.1 % de minimis concentration

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Nonylphenol polyethylene glycol ether	127087-87-0	Not Applicable	Not Applicable
Polyethylene Glycol	25322-68-3	Not Applicable	Not Applicable
Dinonylphenyl polyoxyethylene	9014-93-1	Not Applicable	Not Applicable
Ethylene oxide	75-21-8	Not Applicable	10/04/1982 10/04/1992
1,4-Dioxane	123-91-1	Not Applicable	Not Applicable
Acetaldehyde	75-07-0	Not Applicable	09/30/199106/30/1998
Formaldehyde	50-00-0	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Component Ethylene oxide 75-21-8 (<=0.0020) WHMIS 2015 Hazard Classification

Flammable gases - Category 1: H220 Extremely flammable gas.; Gases under pressure - Liquefied gas: H280 Contains gas under pressure, may explode when heated.; Acute toxicity - Inhalation -Category 3: H331 Toxic if inhaled.; Skin corrosion/irritation -Category 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Respiratory sensitizers - Category 1B: H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.; Skin sensitizers - Category 1B: H317 May cause allergic skin reaction.; Germ cell mutagenicity - Category 1B: H340 May cause genetic defects.; Carcinogenicity - Category 1B: H350 May cause cancer.; Reproductive Toxicity - Category 1: H360 May damage fertility or the unborn child.; Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.; Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated

Flammable liquids - Category 2: H225 Highly flammable liquid and vapour.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Carcinogenicity - Category 2: H351 Suspected of causing cancer.

1,4-Dioxane 123-91-1 (<= 0.0015)

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Acetaldehyde 75-07-0 (<=0.0006)

Formaldehyde 50-00-0 (<=0.0004)

Flammable liquids - Category 1: H224 Extremely flammable liquid and vapour.; Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Skin sensitizers - Category 1B: H317 May cause allergic skin reaction.; Carcinogenicity - Category 2: H351 Suspected of causing cancer.; Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.

Flammable gases - Category 1: H220 Extremely flammable gas.; Flammable liquids - Category 3: H226 Flammable liquid and vapour. (solution, 37%); Corrosive to Metals - Category 1: H290 May be corrosive to metals, (solution, 37%): Acute toxicity - Oral -Category 4: H302 Harmful if swallowed. (solution, 37%); Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin. (solution, 37%); Acute toxicity - Inhalation - Category 2: H330 Fatal if inhaled.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation. (solution, 37%); Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage. (solution, 37%); Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Skin sensitizers - Category 1A: H317 May cause allergic skin reaction. (solution, 37%); Germ cell mutagenicity - Category 2: H341 Suspected of causing genetic defects.; Carcinogenicity - Category 1A: H350 May cause cancer.; Reproductive Toxicity - Category 1: H360 May damage fertility or the unborn child. (solution, 37%; contains 16% of a substance that is toxic to reproduction (Methyl alcohol)); Specific target organ toxicity - Single exposure - Category 2: H371 May cause damage to organs. (solution, 37%); Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.; Specific target organ toxicity - Single exposure - Category 3: H336 May cause drowsiness or dizziness. (solution, 37%)

Canada Hazardous Products Regulation This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Nonylphenol polyethylene glycol ether	127087-87-0	Present	Not Listed
Polyethylene Glycol	25322-68-3	Present	Not Listed
Dinonylphenyl polyoxyethylene	9014-93-1	Present	Not Listed
Ethylene oxide	75-21-8	Present	Not Listed
1,4-Dioxane	123-91-1	Present	Not Listed
Acetaldehyde	75-07-0	Present	Not Listed
Formaldehyde	50-00-0	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Nonylphenol polyethylene glycol ether	127087-87-0	Not listed
Polyethylene Glycol	25322-68-3	Not listed
Dinonylphenyl polyoxyethylene	9014-93-1	Not listed
Ethylene oxide	75-21-8	Present
1,4-Dioxane	123-91-1	Not listed
Acetaldehyde	75-07-0	Present
Formaldehyde	50-00-0	Present
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Nonylphenol polyethylene glycol ether	127087-87-0	Not listed
Polyethylene Glycol	25322-68-3	Not listed
Dinonylphenyl polyoxyethylene	9014-93-1	Not listed
Ethylene oxide	75-21-8	Not listed
1,4-Dioxane	123-91-1	Not listed
Acetaldehyde	75-07-0	Not listed

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Formaldehyde	50-00-0	Not listed
li dillialdelliyde	130-00-0	NOT IISTEU

EU Classification

EU GHS - SV - CLP 1272/2008

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Component	CAS No	EU GHS - SV - CLP (1272/2008)
Nonylphenol polyethylene glycol ether	127087-87-0	
Polyethylene Glycol	25322-68-3	
Dinonylphenyl polyoxyethylene	9014-93-1	
Ethylene oxide	75-21-8	Flammable gases - Flam. Gas 1: H220 Extremely flammable gas.; Gases under pressure: H280 Contains gas under pressure, may explode when heated.; Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled. (Minimum classification); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.; Germ cell mutagenicity - Muta. 1B: H340 May cause genetic defects.; Carcinogenicity - Carc. 1B: H350 May cause cancer.; Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.603-023-00-X
1,4-Dioxane	123-91-1	Flammable liquids - Flam. Liq. 2: H225 Highly flammable liquid and vapour.; Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.; Carcinogenicity - Carc. 2: H351 Suspected of causing cancer.; Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.; Supplemental Hazards: EUH019 May form explosive peroxides.; Supplemental Hazards: EUH066 Repeated exposure may cause skin dryness or cracking.603-024-00-5
Acetaldehyde	75-07-0	, ,
Formaldehyde	50-00-0	Acute toxicity - Oral - Acute Tox. 3: H301 Toxic if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 3: H311 Toxic in contact with skin. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (C >= 25 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Skin sensitizers - Skin Sens. 1: H317 May cause allergic skin reaction. (C >= 0.2 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Germ cell mutagenicity - Muta. 2:

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H341 Suspected of causing genetic defects.; Carcinogenicity - Carc. 1B: H350 May cause cancer.605-001-00-5 Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. ($C \ge 25 \%$; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation. (5 % <= C <25 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given): Serious Eye Damage/Eye Irritation -Eye Irrit. 2: H319 Causes serious eye irritation. (5 % <= C <25 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Skin sensitizers - Skin Sens. 1: H317 May cause allergic skin reaction. (C >= 0.2 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given); Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation. (C >= 5 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)605-001-00-5

EU - CLP (1272/2008)

R-phrase(s)

R22 - Harmful if swallowed

R36/38 - Irritating to eyes and skin

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S37 - Wear suitable gloves

S46 - If swallowed, seek medical advice immediately and show this container or label

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Nonylphenol polyethylene glycol ether	127087-87-0		No information	
Polyethylene Glycol	25322-68-3		No information	
Dinonylphenyl polyoxyethylene	9014-93-1		No information	
Ethylene oxide	75-21-8	F+; R12 T; R23 Xi; R36/37/38 Carc.Cat.2; R45 Muta.Cat.2; R46 R6	No information	S53-S45

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1,4-Dioxane	123-91-1	F; R11-19 Xi; R36/37 Carc.Cat.3; R40 R66	No information	S2 S9 S16 S36/37 S46
Acetaldehyde	75-07-0	F+; R12 Xi; R36/37 Carc.Cat.3; R40	No information	S2 S16 S33 S36/37
Formaldehyde	50-00-0	T; R23/24/25 C; R34 Carc.Cat.2; R45 R43 Muta.Cat.3; R68	0.2%<=C<1% Xi;R43 1%<=C<5% Xn;R40-43 25%<=C T;R23/24/25-34-40-43 5%<=C<25% Xn;R20/21/22-36/37/3 8-40-43	S(1/2)-S26-S36/37/39- S45- S51

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xn - Harmful Xi - Irritant





16. OTHER INFORMATION

Preparation Date:1/04/2017Revision date10/2/2019Prepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

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