

Last revised date: 01/27/2023

Becton, Dickinson and Company BD, Franklin Lakes, NJ 07417 USA www.bd.com

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
371073	BD E-Z Scrub™ surgical scrub brush impregnated with 4% CHG.Color code red.	No data available

Recommended restrictions

Recommended use: Skin Antiseptic
Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Becton Dickinson

Address: 9450 South State Street

Sandy, UT 84070 USA

Telephone: 1-801-565-2300 (US 24 hour)

Contact Person: Regulatory Affairs

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Carcinogenicity Category 2

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Environmental Hazards

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic

environment

Category 1

Category 2

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: H351: Suspected of causing cancer.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P202: Do not handle until all safety precautions have been read and

understood.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

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

P391: Collect spillage.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance

with local, regional, national and international regulations.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Nonylphenol, ethoxylated	No data available.	9016-45-9	5%
D-Gluconic acid, compd. with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1)	No data available.	18472-51-0	4.1%
Diethanolamine	No data available.	111-42-2	0.2%
Octadecanoic acid	No data available.	57-11-4	0.165%
Sodium hydroxide (Na(OH))	No data available.	1310-73-2	0.01%
Hydrochloric acid	No data available.	7647-01-0	0.01%
1,4-Dioxane	No data available.	123-91-1	0.01%
Oxirane	No data available.	75-21-8	0.001%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

	Descri	ntion	of first	aid	measures
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General information: Get medical attention if symptoms occur. Ears: Flush ears with

copious amounts of running water for at least 15 minutes.

Inhalation: Get medical attention if symptoms occur. Over exposure may

cause headache, fatigue, dizziness, loss of coordination and

unconsciousness. Vapor has anesthetic properties.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and

flush skin and hair with running water.

Eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes

and see a doctor.

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Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water.

Wash out mouth with water, treat with gastric lavage, using milk,

egg white or mild soap.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: Suspected of causing cancer.

Indication of immediate medical attention and special treatment needed

Treatment: If skin or hair contact occurs, remove contaminated clothing and

flush skin and hair with running water.

5. Fire-fighting measures

General Fire Hazards: Firefighters must use standard protective equipment

including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, dry powder or carbon dioxide.

Unsuitable extinguishing media: No data available.

Special hazards arising from the

substance or mixture:

Fire causes formation of toxic gases.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-

fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

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Personal precautions, protective

equipment and emergency

procedures:

Use personal protective equipment.

Accidental release measures:

Methods and material for containment and cleaning up:

Absorb spillage with suitable absorbent material. Transfer to a container for disposal. Clean surface thoroughly to remove

residual contamination.

No data available.

Environmental Precautions: Do not release into the environment.

7. Handling and storage

Handling

Technical measures: No data available.

Local/Total ventilation: No data available.

Safe handling advice: No specific precautions.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store at room temperature (20-25°C). Avoid excessive heat

(40°C). Store isolated from oxidizers, ignition sources, and explosives. Consult local fire codes for additional storage

information.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

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Chemical Identity	Туре	Exposure Limit Values		Source	
Diethanolamine	TWA	3 ppm	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	TWA	3 ppm	15 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended	
	ST ESL		2 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended	
	AN ESL		0.2 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended	
	ST ESL		10 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended	
	AN ESL		1 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended	
	TWA PEL	0.46 ppm	2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended	
Diethanolamine - Inhalable fraction and vapor.	TWA		1 mg/m3	US. ACGIH Threshold Limit Values, as amended	
Diethanolamine	REL	3 ppm	15 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
Octadecanoic acid - Particulate.	AN ESL		5 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended	
Octadecanoic acid - Vapor.	ST ESL		1,000 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended	
Octadecanoic acid - Particulate.	ST ESL		50 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended	
Octadecanoic acid - Vapor.	AN ESL		100 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended	
Octadecanoic acid	TWA		10 mg/m3	US. ACGIH Threshold Limit Values, as amended	

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Sodium hydroxide (Na(OH))	Ceiling		2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling		2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Sodium hydroxide (Na(OH)) - Particulate.	AN ESL		2 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL		20 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Sodium hydroxide (Na(OH))	Ceiling		2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	Ceiling		2 mg/m3	US. ACGIH Threshold Limit Values, as amended
	Ceil_Time		2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL		2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	IDLH		10 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Hydrochloric acid	Ceiling	5 ppm	7 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	5 ppm	7 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	ST ESL		130 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL		5.7 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL		8.4 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL		190 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	Ceiling	5 ppm	7 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended

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	Ceiling	2 ppm		US. ACGIH Threshold Limit Values, as amended
	Ceil_Time	5 ppm	7 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	Ceiling	5 ppm	7 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	IDLH	50 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
1,4-Dioxane	TWA	25 ppm	90 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	25 ppm	90 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	ST ESL		250 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL		25 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL		90 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL		900 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	TWA PEL	0.28 ppm	1.0 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
	Ceil_Time	1 ppm	3.6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	100 ppm	360 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	IDLH	500 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	LEL		2.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Oxirane	TWA	1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000),

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as amended STEL US. OSHA Table Z-1-A (29 CFR 1910.1000), 5 ppm as amended AN ESL US. Texas. Effects Screening Levels (Texas 1 ppb Commission on Environmental Quality), as amended US. Texas. Effects Screening Levels (Texas ST ESL 10 ppb Commission on Environmental Quality), as amended AN ESL 2 μg/m3 US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended ST ESL 20 µg/m3 US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended TWA PEL 1 ppm 2 mg/m3 US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended STEL US. California Code of Regulations, Title 8, 5 ppm Section 5155. Airborne Contaminants, as amended TWA A LV US. California Code of Regulations, Title 8, 0.5 ppm Section 5155. Airborne Contaminants, as amended US. ACGIH Threshold Limit Values, as TWA 1 ppm amended REL 0.18 mg/m3 US. NIOSH: Pocket Guide to Chemical 0.1 ppm Hazards, as amended Ceil_Time 9 mg/m3 US. NIOSH: Pocket Guide to Chemical 5 ppm Hazards, as amended IDLH US. NIOSH. Immediately Dangerous to Life or 800 ppm Health (IDLH) Values, as amended US. OSHA Specifically Regulated Substances OSHA AC 0.5 ppm (29 CFR 1910.1001-1053), as amended US. OSHA Specifically Regulated Substances TWA 1 ppm (29 CFR 1910.1001-1053), as amended STEL US. OSHA Specifically Regulated Substances 5 ppm (29 CFR 1910.1001-1053), as amended LEL 3.0 % US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

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Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
Oxirane	N-(2-hydroxyethyl)-valine (HEV) hemoglobin adducts Sampling time: Not critical.	5000 pmol/g (Hemoglobin adducts)	ACGIH BEI
	S-(2-hydroxyethyl) mercapturic acid (HEMA) Sampling time: End of shift.	5 μg/g (Creatinine in urine)	ACGIH BEI

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear goggles/face shield.

Skin Protection

Hand Protection: Additional Information: Hand protection not required.

Skin and Body Protection: No data available.

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Respiratory Protection: None should be needed.

Hygiene measures: No data available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid Form: liquid

Color: Clear, Pink, Red

Odor: Mild

Odor Threshold: No data available.

Freezing point: Similar to water

Boiling Point: >= 212 °F/>= 100 °C Similar to water

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:

Explosive limit - lower:

No data available.

No data available.

Not applicable

Self Ignition Temperature:

No data available.

Decomposition Temperature: No data available.

pH: 6 - 7.5

Viscosity

Dynamic viscosity:500 mPa.s (932 °F/500 °C)Kinematic viscosity:1000 mm2/s (77 °F/25 °C)

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Completely soluble in water

Solubility (other): No data available.

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Partition coefficient (n-octanol/water): Not applicable

Vapor pressure: No data available.

 Relative density:
 0.99 - 1.10

 Density:
 1.06 g/cm3

Bulk density: No data available.

Relative vapor density: No data available.

Other information

Metal Corrosion: Not Evaluated

10. Stability and reactivity

Reactivity: Material is stable under normal conditions.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Not known.

Conditions to avoid: No data available.

Incompatible Materials: Avoid contact with oxidizers or reducing agents.

Hazardous Decomposition Carbon Dioxide. Carbon Monoxide. Hydrogen chloride

Products: gas. Nitrogen oxides. Ammonia.

11. Toxicological information

General information: EARS: CHG may cause permanent damage / deafness when instilled

in the middle ear May cause permanent damage if permitted to enter

and remain in the ears or eyes for a long period of time

Information on toxicological effects

Inhalation: No data available.

Skin Contact: No data available.

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No data available. Eye contact:

Ingestion: No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 24,313.14 mg/kg

Components:

Nonylphenol, ethoxylated LD 50 (Rat): 4,000 mg/kg

D-Gluconic acid, compd. LD 50 (Rat): 2,000 mg/kg with N1,N14-bis(4-LD 50 (Mouse): 1,700 mg/kg

chlorophenyl)-3,12diimino-2.4.11.13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine LD 50 (Rat): 710 mg/kg

Octadecanoic acid LD 50 (Rat): 4.6 g/kg

Sodium hydroxide

(Na(OH))

No data available.

Hydrochloric acid No data available.

1,4-Dioxane LD 50 (Rabbit): 2,000 mg/kg

LD 50 (Guinea pig): 3,150 mg/kg LD 50 (Mouse): 5,700 mg/kg LD 50 (Cat): 2,000 mg/kg

Oxirane LD 50 (Mouse): 365 mg/kg

LD 50 (Mouse): 280 mg/kg LD 50 (Rat): 72 mg/kg

LD 50 (Guinea pig): 270 mg/kg

Dermal

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available.

D-Gluconic acid, compd. LD 50 (Rabbit): 5,000 mg/kg with N1,N14-bis(4-LD 50 (Rabbit): > 5,000 mg/kg chlorophenyl)-3,12-Experimental result, Key study

tetraazatetradecanediimid

diimino-2,4,11,13-

amide (2:1)

Diethanolamine No data available. No data available. Octadecanoic acid

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Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid
1,4-Dioxane
Oxirane

No data available.
No data available.
No data available.

Inhalation

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid LC 50 (Rat, 4 h): 1405 ppm LC 50 (Rat, 1 h): 2810 ppm

1,4-Dioxane No data available.

Oxirane LC 50 (Rat, 1 h): 2900 ppm

Repeated dose toxicity

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine LOAEL (Rat(Female, Male), Inhalation): 15 mg/m3 Experimental result,

Key study Inhalation

LOAEL (Rat(Female, Male), Dermal, 13 Weeks): 32 mg/kg Experimental

result, Key study Dermal

NOAEL (Rat(Female, Male), Inhalation): 15 mg/m3 Experimental result,

Key study Inhalation

NOAEL (Rat(Female, Male), Inhalation): 0.2 mg/l Experimental result,

Supporting study Inhalation

NOAEL (Rat(Female, Male), Inhalation): 3 mg/m3 Experimental result,

Key study Inhalation No data available.

Octadecanoic acid Sodium hydroxide

(Na(OH))

No data available.

Hydrochloric acid

NOAEL (Mouse(Female, Male), Inhalation, 4 - 91 d): 20 ppm(m)

Experimental result, Key study Inhalation

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NOAEL (Rat(Female, Male), Inhalation, 4 - 91 d): 10 ppm(m)

Experimental result, Key study Inhalation

NOAEL (Rat(Female, Male), Inhalation, 4 - 91 d): 20 ppm(m)

Experimental result, Key study Inhalation

LOAEL (Mouse(Female, Male), Inhalation, 4 - 91 d): 50 ppm(m)

Experimental result, Key study Inhalation

NOAEL (Guinea pig; Monkey; Rabbit(female), Inhalation, 2 - 20 d): 0.05

mg/l Experimental result, Supporting study Inhalation

1,4-Dioxane LOAEL (Rat(Female, Male), Inhalation, 13 Weeks): 100 ppm(m)

Experimental result, Not specified Inhalation

NOAEL (Rat(Female, Male), Inhalation): > 400 mg/m3 Experimental

result, Key study Inhalation

LOAEL (Rat(Female, Male), Inhalation): 360 mg/m3 Experimental result,

Not specified Inhalation

Oxirane NOAEL (Rat(Female, Male), Inhalation, 2 yr): 10 ppm(m) Experimental

result, Weight of Evidence study Inhalation

NOAEL (Mouse(Female, Male), Inhalation, 10 - 11 Weeks): 10 ppm(m)

Experimental result, Weight of Evidence study Inhalation

Skin Corrosion/Irritation

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine Slightly irritating
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid No data available.
1,4-Dioxane No data available.
Oxirane No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.
Octadecanoic acid No data available.

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Sodium hydroxide Mild irritant in vivo , Rabbit, 4 d: OECD GHS

(Na(OH)) Mild irritant in vivo Rabbit, 2 d: OECD GHS

Mild irritant in vivo Rabbit, 1 d: OECD GHS Mild irritant in vivo Rabbit, 3 d: OECD GHS

Hydrochloric acid Category 1 in vivo , Rabbit, 1 hrs: EU

Category 1 in vivo Rabbit, 1 d: EU
Category 1 in vivo Rabbit, 1 - 21 d: EU
Category 1 in vivo Rabbit, 3 - 7 d: EU
Category 1 in vivo Rabbit, 1 - 24 hrs: EU
Category 1 in vivo Rabbit, 1 - 7 d: EU
Category 1 in vivo Rabbit, 1 - 2 d: EU

1,4-Dioxane No data available.
Oxirane No data available.

Respiratory or Skin Sensitization

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine Skin sensitization:, in vivo (Guinea pig): Non sensitising Octadecanoic acid Skin sensitization:, in vivo (Guinea pig): Non sensitising

Sodium hydroxide

No data available.

(Na(OH))

Hydrochloric acid No data available.

1,4-Dioxane Skin sensitization:, in vivo (Guinea pig): Non sensitising

Oxirane No data available.

Carcinogenicity

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid No data available.
1,4-Dioxane No data available.
Oxirane No data available.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Diethanolamine Overall evaluation: 2B. Possibly carcinogenic to humans.

ACGIH: US.ACGIH Threshold Limit Values:

Diethanolamine Hazard Designation: Group A3. Confirmed animal carcinogen with

unknown relevance to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid No data available.

1,4-Dioxane No data available.

Oxirane No data available.

In vivo

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid No data available.

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1,4-Dioxane No data available.
Oxirane No data available.

Reproductive toxicity

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1) Diethanolami

Diethanolamine No data available.
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid
1,4-Dioxane
Oxirane
No data available.
No data available.
No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid
1,4-Dioxane
Oxirane
No data available.
No data available.
No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.

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Octadecanoic acid No data available. Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid
1,4-Dioxane
Oxirane
No data available.
No data available.
No data available.

Aspiration Hazard

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid No data available.

1,4-Dioxane No data available.

Oxirane No data available.

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: Low toxicity to sewage microorganisms

Components:

Nonylphenol, No data available.

ethoxylated

D-Gluconic acid, compd. with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13- LC 0 (Danio rerio, 96 h): 2 mg/l Experimental result, Key study LC 100 (Danio rerio, 96 h): 3.6 mg/l Experimental result, Key study LC 50 (Danio rerio, 96 h): 2.08 mg/l Experimental result, Key study LC 10 (Poecilia reticulata, 5 d): 22 mg/l Experimental result, Supporting

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tetraazatetradecanediimi study

damide (2:1)

Diethanolamine

LC 50 (Pimephales promelas, 96 h): 4,710 mg/l

LC 50 (Sheepshead minnow (Cyprinodon variegatus), 24 h): > 540 mg/l

Mortality

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1,200 - 1,580

mg/I Mortality

LC 50 (Bluegill (Lepomis macrochirus), 24 h): 2,100 mg/l Mortality LC 50 (Carp (Leuciscus idus melanotus), 48 h): 1,430 mg/l Mortality

Octadecanoic acid LC 100 (Leuciscus idus, 48 h): > 10,000 mg/l Experimental result, Key

study

LC 50 (Leuciscus idus, 48 h): > 10,000 mg/l Experimental result, Key

study

LC 0 (Leuciscus idus, 48 h): 10,000 mg/l Experimental result, Key study LC 0 (Cyprinus carpio, 48 h): 1,000 mg/l Experimental result, Supporting

study

Sodium hydroxide

(Na(OH))

No data available.

Hydrochloric acid LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 282 mg/l

Mortality

LC 50 (Western mosquitofish (Gambusia affinis), 48 h): 282 mg/l

Mortality

LC 50 (Western mosquitofish (Gambusia affinis), 24 h): 282 mg/l

Mortality

1,4-Dioxane LC 50 (Pimephales promelas, 96 h): 10,300 mg/l

LC 50 (Carp (Leuciscus idus melanotus), 48 h): 8,450 mg/l Mortality LC 50 (Carp (Leuciscus idus melanotus), 48 h): 9,630 mg/l Mortality LC 50 (Inland silverside (Menidia beryllina), 96 h): 6,700 mg/l Mortality LC 50 (Oryzias latipes, 21 d): > 100 mg/l Experimental result, Key study

Oxirane LC 50 (Fathead minnow (Pimephales promelas), 24 h): 63 - 125 mg/l

Mortality

LC 50 (Pimephales promelas, 48 h): 89 mg/l Experimental result, Key

study

LC 50 (Fathead minnow (Pimephales promelas), 48 h): 63 - 125 mg/l

Mortality

LC 50 (Fathead minnow (Pimephales promelas), 24 h): 50 - 150 mg/l

Mortality

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 73 - 96 mg/l

Mortality

Aquatic Invertebrates

Product: Components: No data available.

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Nonylphenol,

ethoxylated D-Gluconic acid, compd.

with N1,N14-bis(4chlorophenyl)-3,12diimino-2,4,11,13tetraazatetradecanediimi

damide (2:1)

No data available.

EC 100 (Daphnia magna, 48 h): 0.12 mg/l Experimental result, Key

study experimental result

EC 50 (Daphnia magna, 48 h): 0.05 - 0.1 mg/l Experimental result, Not

specified experimental result

ED 0 (Daphnia magna, 48 h): 0.04 mg/l Experimental result, Key study

experimental result

EC 50 (Daphnia magna, 48 h): 0.087 mg/l Experimental result, Key

study experimental result

Diethanolamine LC 50 (Water flea (Daphnia pulex), 48 h): 2.15 mg/l Mortality

> LC 50 (Water flea (Daphnia magna), 24 h): 140 - 180 mg/l Mortality LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 22.2 - 39.1 mg/l Mortality LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 26.5 - 36.2 mg/l Mortality LC 50 (Ramshorn snail (Helisoma trivolvis), 96 h): > 100 mg/l Mortality

Octadecanoic acid No data available.

Sodium hydroxide

(Na(OH))

Oxirane

Hydrochloric acid

No data available.

LC 50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): 260

mg/I Mortality

LC 50 (Green or European shore crab (Carcinus maenas), 48 h): 240

mg/I Mortality

LC 50 (Scud (Gammarus pseudolimnaeus), 96 h): 1,800 - 2,872 mg/l 1,4-Dioxane

Mortality

LC 50 (Water flea (Daphnia magna), 24 h): 4,700 mg/l Mortality LC 50 (Brine shrimp (Artemia sp.), 24 h): 350 mg/l Mortality

LC 50 (Water flea (Daphnia magna), 48 h): 300 mg/l Mortality LC 50 (Water flea (Daphnia magna), 48 h): 150 - 243 mg/l Mortality

LC 50 (Brine shrimp (Artemia sp.), 24 h): > 500 mg/l Mortality LC 50 (Brine shrimp (Artemia sp.), 48 h): 1,000 mg/l Mortality

Toxicity to Aquatic Plants

Product: No data available.

Components:

Nonylphenol, ethoxylated D-Gluconic acid, compd.

with N1,N14-bis(4chlorophenyl)-3,12diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine Octadecanoic acid Sodium hydroxide

(Na(OH))

Hydrochloric acid 1.4-Dioxane Oxirane

No data available.

No data available.

No data available. No data available. No data available.

No data available. No data available. No data available.

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Toxicity to microorganisms

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine LC 50 (Turbellarian, flatworm (Dugesia tigrina), 96 h): > 100 mg/l

Mortality LC 50 (Turbellarian, flatworm (Dugesia tigrina), 96 h): 100 mg/l

Mortality

Octadecanoic acid No data available. Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid No data available. 1,4-Dioxane No data available. Oxirane No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Nonylphenol, No data available.

ethoxylated

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4chlorophenyl)-3,12diimino-2,4,11,13tetraazatetradecanediimi

damide (2:1)

Diethanolamine No data available.
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid No data available.
1,4-Dioxane No data available.
Oxirane No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Nonylphenol, No data available.

ethoxylated

D-Gluconic acid, compd. LOAEL (Daphnia magna, 21 d): 61.8 µg/l (semi-static) Experimental

with N1,N14-bis(4- result, Key study experimental result

chlorophenyl)-3,12- NOAEL (Daphnia magna, 21 d): 20.6 µg/l (semi-static) Experimental

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diimino-2,4,11,13-

result, Key study experimental result

tetraazatetradecanediimi

EC 100 (Daphnia magna, 21 d): 61.8 μg/l (semi-static) Experimental

damide (2:1)

result, Key study experimental result EC 50 (Daphnia magna, 21 d): 35.8 µg/l (semi-static) Experimental

result, Key study experimental result

Diethanolamine LOAEL (Daphnia magna, 21 d): 1.56 mg/l (semi-static) Experimental

result, Key study experimental result

LC 0 (Daphnia magna, 21 d): 3.13 mg/l (semi-static) Experimental result,

Key study experimental result

NOAEL (Daphnia magna, 21 d): 0.78 mg/l (semi-static) Experimental

result, Key study experimental result

Octadecanoic acid

Sodium hydroxide

No data available. No data available.

(Na(OH))

No data available. Hydrochloric acid 1,4-Dioxane No data available. Oxirane No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4chlorophenyl)-3,12diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

No data available. Diethanolamine Octadecanoic acid No data available. Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid No data available. 1,4-Dioxane No data available. Oxirane No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4chlorophenyl)-3,12diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine LC 50 (Turbellarian, flatworm (Dugesia tigrina), 96 h); > 100 mg/l

Mortality LC 50 (Turbellarian, flatworm (Dugesia tigrina), 96 h): 100 mg/l

Mortality

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Octadecanoic acid No data available. Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid No data available. 1,4-Dioxane No data available. Oxirane No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Nonylphenol, ethoxylated 98 % (30 d) Experimental result, Key study Detected in water.

> 99 % (30 d) Experimental result, Key study Detected in water. 97 % (30 d) Experimental result, Key study Detected in water.

D-Gluconic acid, compd. with N1,N14-bis(4chlorophenyl)-3,12diimino-2,4,11,13-

65 % Experimental result, Key study Detected in water. 100 % Experimental result, Not specified Detected in water. > 0 % Experimental result, Key study Detected in water. 79 % Experimental result, Key study Detected in water. tetraazatetradecanediimid 71 % Experimental result, Key study Detected in water.

amide (2:1)

Diethanolamine 93 % (28 d) Experimental result, Supporting study Detected in water.

96 % (10 d) Experimental result, Supporting study Detected in water. 93 % (28 d) Experimental result, Supporting study Detected in water. 96 % (10 d) Experimental result, Supporting study Detected in water.

93 % (28 d) Experimental result, Key study Detected in water.

Octadecanoic acid No data available.

Sodium hydroxide

(Na(OH))

No data available.

Hydrochloric acid No data available.

No data available. 1.4-Dioxane

Oxirane 69 % (20 d) Experimental result, Supporting study Detected in water.

> 50 % (20 d) Not specified, Supporting study Detected in water.

100 % Experimental result, Key study Detected in water. 96 % Experimental result, Key study Detected in water.

93 - 98 % (28 d) Experimental result, Supporting study Detected in

water.

BOD/COD Ratio

Components:

Product: No data available.

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Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.
Octadecanoic acid No data available.
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid
1,4-Dioxane
Oxirane
No data available.
No data available.
No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Nonylphenol, ethoxylated No data available.

D-Gluconic acid, compd. Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF):

with N1,N14-bis(4- 2,560 (Static)

chlorophenyl)-3,12- Carp (Leuciscus idus melanotus), Bioconcentration Factor (BCF): 42

diimino-2,4,11,13- (Renewal)

tetraazatetradecanediimid Leuciscus idus, Bioconcentration Factor (BCF): 42 Experimental result,

amide (2:1) Key study Aquatic sediment

Leuciscus idus, Bioconcentration Factor (BCF): 40 Experimental result,

Key study Aquatic sediment

Diethanolamine Bioconcentration Factor (BCF): 3 Estimated by calculation, Weight of

Evidence study Aquatic sediment

Bioconcentration Factor (BCF): 4 Estimated by calculation, Weight of

Evidence study Aquatic sediment

Bioconcentration Factor (BCF): 0.73 Estimated by calculation, Weight of

Evidence study Aquatic sediment

Octadecanoic acid Danio rerio, Bioconcentration Factor (BCF): 238 - 288 Read-across from

supporting substance (structural analogue or surrogate), Key study

Aquatic sediment

Danio rerio, Bioconcentration Factor (BCF): 236 - 282 Read-across from supporting substance (structural analogue or surrogate), Key study

Aquatic sediment

Danio rerio, Bioconcentration Factor (BCF): 234 - 249 Read-across from supporting substance (structural analogue or surrogate), Key study

Aquatic sediment

Sodium hydroxide

(Na(OH))

No data available.

Hydrochloric acid
1,4-Dioxane

Oxirane

No data available.
No data available.
No data available.

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Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Not applicable

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Diethanolamine No data available.
Octadecanoic acid Log Kow: 8.23
Sodium hydroxide No data available.

(Na(OH))

Hydrochloric acid
1,4-Dioxane
Oxirane
No data available.
Log Kow: -0.27
No data available.

Mobility in soil:

Product No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. witho data available.

N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13tetraazatetradecanediimidam

ide (2:1)

Diethanolamine
Octadecanoic acid
Sodium hydroxide (Na(OH))No data available.
Hydrochloric acid
1,4-Dioxane
Oxirane
No data available.
No data available.
No data available.
No data available.

Results of PBT and vPvB assessment:

Product No data available.

Components:

Nonylphenol, ethoxylated No data available. D-Gluconic acid, compd. wit No data available.

N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13tetraazatetradecanediimidam

ide (2:1)

Diethanolamine No data available. Octadecanoic acid No data available. Sodium hydroxide (Na(OH)) No data available.

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Hydrochloric acid No data available.
1,4-Dioxane No data available.
Oxirane No data available.

Other adverse effects:

Other hazards

Product: No data available.

13. Disposal considerations

Disposal methods: Dispose of waste and residues in accordance with local authority

requirements.

Contaminated Packaging: Water, if necessary with cleansing agents.

14. Transport information

DOTUN number or ID number: Not regulated. UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es)

Class: Not regulated.
Label(s): Not regulated.
Packing Group: Not regulated.
Marine Pollutant: Not regulated.
Limited quantity Not regulated.
Excepted quantity Not regulated.

Special precautions for user: Not regulated.

IMDG

UN number or ID number: Not regulated. UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es)

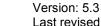
Class: Not regulated.
Subsidiary risk: Not regulated.
EmS No.: Not regulated.
Packing Group: Not regulated.

Environmental Hazards

Marine Pollutant: Not regulated.

Special precautions for user: Not regulated.

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IATA

UN number or ID number: Not regulated. Proper Shipping Name: Not regulated.

Transport Hazard Class(es):

Class: Not regulated. Subsidiary risk: Not regulated. Packing Group: Not regulated.

Environmental Hazards

Marine pollutant: Not regulated.

Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

<u>Chemical Identity</u> <u>Reportable quantity</u>

Poly(oxy-1,2-ethanediyl), α -(nonylphenyl)- ω -hydroxy-

<= 1.0 % One-Time Export Notification only.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

GLYCOL ETHERS

DIETHANOLAMINE

SODIUM HYDROXIDE

HYDROCHLORIC ACID

1,4-DIOXANE

OXIRANE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Carcinogenicity

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Chemical Identity

Hydrogen chloride (anhydrous); Hydrogen chloride (gas only)

Oxirane; ethylene

oxide

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US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

Chemical Identity % by weight

POLY(OXY-1,2-ETHANEDIYL), A-(NONYLPHENYL)-Ω-HYDROXY- 1.0%1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

none

Chemical Identity

HYDROCHLORIC ACID (CONC. 37% OR GREATER)
HYDROGEN CHLORIDE (ANHYDROUS)

ETHYLENE OXIDE

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity

SODIUM HYDROXIDE

HYDROCHLORIC ACID

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Oxirane which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

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This product can expose you to chemicals including, N,N-BIS(2-HYDROXYETHYL)DODECAN AMIDE, Diethanolamine, 1,4-Dioxane which is [are] known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16.Other information, including date of preparation or last revision

Issue Date: 01/27/2023

Version #: 5.3

Further Information: No data available.

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