Version: 3.0

Effective Date: Jun-22-2017 Previous Date: May-15-2017



# SAFETY DATA SHEET

# SCALETROL\* PDC9304

# 1. Identification

**Product identifier SCALETROL PDC9304** 

Other means of identification None.

Deposit control agent Recommended use

**Recommended restrictions** None known.

### Company/undertaking identification

GE Betz, Inc. 4636 Somerton Road Trevose, PA 19053

T 215 355 3300. F 215 953 5524

#### **Emergency telephone**

(800) 877 1940

## 2. Hazard(s) identification

Corrosive to metals Category 1 Physical hazards Skin corrosion/irritation Health hazards Category 2 Serious eye damage/eye irritation Category 1

> Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Not classified. OSHA defined hazards

Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Causes skin irritation. Causes serious eye damage. May cause respiratory

irritation.

Precautionary statement

Keep only in original packaging. Wear eye protection/face protection. Wear protective gloves. Avoid Prevention

breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously Response

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Absorb spillage

to prevent material-damage.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive Storage

resistant container with a resistant inner liner.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified

(HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Components	CAS#	Percent	
Ethylenediamine tetraacetic acid, tetrasodium salt (EDTA.4Na)	64-02-8	10 - 20	
Nitrilotriacetic acid,trisodium salt (NTA.Na3)	5064-31-3	0.1 - 1	

Composition comments

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation

### 4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Inhalation

CENTER or doctor/physician if you feel unwell.

Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated Skin contact

clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment

needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

**General information** 

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

precautions for firefighters Fire fighting

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray.

Specific methods

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.

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# 7. Handling and storage

Do not get this material in contact with eyes. Avoid breathing mist or vapor. Avoid contact with eyes. Precautions for safe handling

skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in original tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with

local/regional/national/international regulation.

# 8. Exposure controls/personal protection

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Eye wash fountain and emergency showers are recommended. Good general ventilation should be Appropriate engineering controls

used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

Individual protection measures, such as personal protective equipment

Face shield. Splash proof chemical goggles. Eye/face protection

Skin protection

Wear appropriate chemical resistant gloves. The choice of an appropriate glove does not only depend Hand protection

on its material but also on other quality features and is different from one producer to the other. Glove

selection must take into account any solvents and other hazards present.

Wear suitable protective clothing. Other

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits

(where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be worn. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE

CONDITIONS WARRANT A RESPIRATOR'S USE.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and

before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Yellow to amber Color

Liquid Physical state Odor Sliaht

Odor threshold Not available.

pH (concentrated product) 111

Melting point/freezing point 18 °F (-8 °C) Initial boiling point and boiling 220 °F (104 °C)

range

> 212 °F (> 100 °C) P-M(CC) Flash point

**Evaporation rate** < 1 (Ether = 1)Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available. Flammability limit - upper Not available.

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Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure 18 mm Ha 70 °F (21 °C) Vapor pressure temp. < 1 (Air = 1)Vapor density

1.2 Relative density

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Relative density temperature

Solubility(ies)

100 % Solubility (water)

Partition coefficient

Not available.

70 °F (21 °C)

(n-octanol/water)

Not available. Auto-ignition temperature **Decomposition temperature** Not available. 27 cps

Viscosity

70 °F (21 °C)

Other information

Viscosity temperature

Not explosive. **Explosive properties** Oxidizing properties Not oxidizing. Percent volatile 0 (Estimated) Pour point 23 °F (-5 °C) Specific gravity 1.203

# 10. Stability and reactivity

Reactivity May be corrosive to metals.

Material is stable under normal conditions. Chemical stability Possibility of hazardous reactions Hazardous polymerization does not occur.

Contact with incompatible materials. None under normal conditions. Conditions to avoid

Incompatible materials Strong oxidizing agents. Metals.

Oxides of carbon, nitrogen and phosphorus evolved in fire. Hazardous decomposition

products

# 11. Toxicological information

# Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system.

Skin contact Causes skin irritation.

Causes serious eye damage. Eye contact

May cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and Ingestion

diarrhea.

Symptoms related to the physical,

chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation.

May cause redness and pain.

#### Information on toxicological effects

Acute toxicity

Product	Species	Test Results
SCALETROL PDC9304 (CAS M	ixture)	
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, (Calculated according to GHS additivity formula)
Inhalation		
LC50	Rat	> 5 mg/l, 4 Hour, (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)

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Components Species Test Results

Ethylenediamine tetraacetic acid, tetrasodium salt (EDTA.4Na) (CAS 64-02-8)

Acute

Oral LD50

Rat 1658 mg/kg

Nitrilotriacetic acid,trisodium salt (NTA.Na3) (CAS 5064-31-3)

**Acute** Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat > 5 mg/l, 4 Hours

Oral

LD50 Rat 1100 mg/kg

Skin corrosion/irritationCauses skin irritation.Serious eye damage/eye irritationCauses serious eye damage.

Respiratory or skin sensitization

**Respiratory sensitization**This product is not expected to cause respiratory sensitization. **Skin sensitization**This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are mutagenic or

genotoxic.

**Carcinogenicity** Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Nitrilotriacetic acid, trisodium salt (NTA.Na3) (CAS 5064-31-3) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Chronic effects** Prolonged exposure may cause chronic effects.

# 12. Ecological information

# **Ecotoxicity**

Product		Species	Test Results
SCALETROL PDC9304 (	CAS Mixture)		
	LC50	Fathead Minnow	2770 mg/L, Acute Toxicity, 96 hour, (Estimated)
	NOEL	Fathead Minnow	1670 mg/L, Acute Toxicity, 96 hour, (Estimated)
Aquatic			
Crustacea	LC50	Daphnia magna	1570 mg/L, Acute Toxicity, 48 hour, (Estimated)
	NOEL	Daphnia magna	700 mg/L, Acute Toxicity, 48 hour, (Estimated)
Fish	LC50	Rainbow Trout	1414.2 mg/L, Static Renewal Bioassay, 96 hour, (pH adjusted)
	NOEL	Rainbow Trout	1000 mg/L, Static Renewal Bioassay, 96 hour, (pH adjusted)

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### **Bioaccumulative potential**

Partition coefficient n-octanol / water (log Kow)

Ethylenediamine tetraacetic acid, tetrasodium salt (EDTA.4Na) -3.86 Nitrilotriacetic acid,trisodium salt (NTA.Na3) -10.1

**Bioconcentration factor (BCF)** 

Ethylenediamine tetraacetic acid, tetrasodium salt (EDTA.4Na) 3 Nitrilotriacetic acid.trisodium salt (NTA.Na3) 3

Mobility in soilNo data available.Other adverse effectsNot available.

Persistence and degradability

COD (mgO2/g)
BOD 5 (mgO2/g)
BOD 28 (mgO2/g)
Closed Bottle Test (%

208 (calculated data)
208 (calculated data)
209 (calculated data)
209 (calculated data)

Degradation in 28 days)

- Zahn-Wellens Test (% 3 (calculated data)

Degradation in 28 days)

- TOC (mg C/g) 78 (calculated data)

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Dispose of contents/container in

accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste disposal

company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

DOT

UN number UN3267

UN proper shipping name Transport hazard class(es) Corrosive liquid, basic, organic, n.o.s. (Ethylene Diamine Tetraacetic Acid, Tetrasodium Salt)

Class 8
Subsidiary risk Packing group ||||

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

ERG number 153

Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container

classification.

IATA

UN number UN3267

UN proper shipping name

Corrosive liquid, basic, organic, n.o.s. (Ethylene Diamine Tetraacetic Acid, Tetrasodium Salt)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 153

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

IMDG

**UN number** UN3267

UN proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Ethylene Diamine Tetraacetic Acid, Tetrasodium Salt)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III

**Environmental hazards** 

Marine pollutant No. EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

DOT



### IATA; IMDG



# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

### Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryNo

#### US state regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Formaldehyde (CAS 50-00-0) Listed: January 1, 1988

#### US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

# US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

#### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

#### US - Massachusetts RTK - Substance List

Nitrilotriacetic acid, trisodium salt (NTA.Na3) (CAS 5064-31-3)

#### US - Pennsylvania RTK - Hazardous Substances

Not regulated.

#### US - Rhode Island RTK

Not regulated.

#### US. California Proposition 65

Not Listed.

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

Issue dateMay-29-2015Revision dateJun-22-2017

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**List of abbreviations** CAS: Chemical Abstract Service Registration Number

TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.

ACGIH: American Conference of Governmental Industrial Hyaienists

STEL: Short Term Exposure Limit LC50: Lethal Concentration, 50% LD50: Lethal Dose, 50% TWA: Time Weighted Average BOD: Biochemical Oxygen Demand COD: Chemical Oxygen Demand TOC: Total Organic Carbon

NOEL: No Observed Effect Level

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

**References:** No data available

**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.

**Revision information**This document has undergone significant changes and should be reviewed in its entirety. **Prepared by**This SDS has been prepared by GE Water & Process Technologies Regulatory Department

(1-215-355-3300).

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<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

<sup>\*</sup> Trademark of General Electric Company. May be registered in one or more countries.