according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

#### **SECTION 1. IDENTIFICATION**

Product name : 459G-804 PRIMER GREEN

Product code : D14869987

SDS-Identcode : 130000127494

#### Manufacturer or supplier's details

Company name of supplier : The Chemours Company FC, LLC

Address : 1007 Market Street

Wilmington, DE 19801 United States of America (USA)

Telephone : 1-844-773-CHEM (outside the U.S. 1-302-773-1000)

Emergency telephone : Medical emergency: 1-866-595-1473 (outside the U.S. 1-302-

773-2000); Transport emergency: +1-800-424-9300 (outside

the U.S. +1-703-527-3887)

#### Recommended use of the chemical and restrictions on use

Recommended use : Coatings

Restrictions on use : For industrial use only.

Do not use or resell Chemours<sup>™</sup> materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information,

please contact your Chemours representative.

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye irritation : Category 2A

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

#### Other hazards

The thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flulike symptoms in humans, especially when smoking contaminated tobacco.

#### **GHS** label elements

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Hazard pictograms





Signal Word : Danger

Hazard Statements : H319 Causes serious eye irritation.

H351 Suspected of causing cancer. H360D May damage the unborn child.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection

and face protection.

Response:

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

to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical attention. P337 + P313 If eye irritation persists: Get medical attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste

disposal plant.

### **Additional Labeling**

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 5.3996 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 5.3996 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 5.3996 %

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Paint

#### Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
2,2',2"-Nitrilotriethanol	102-71-6*	>= 5 - <= 10	TSC

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

II.			
Silicon dioxide, amorphous	7631-86-9*	>= 1 - <= 5	TSC
Furfuryl alcohol	98-00-0*	>= 1 - <= 5	TSC
N-Methyl-2-pyrrolidone	872-50-4*	>= 1 - <= 5	TSC
Chromium oxide	1308-38-9*	>= 1 - <= 5	TSC
2,6,8-Trimethyl-4- nonyloxypolyethyleneoxy- ethanol	60828-78-6*	>= 0.5 - <= 1.5	TSC
Triethylamine	121-44-8*	>= 0.1 - <= 1	TSC

<sup>\*</sup> Indicates that the identifier is a CAS No.

#### **SECTION 4. FIRST AID MEASURES**

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes.

Get medical attention.
Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention.

If swallowed, DO NOT induce vomiting.

Get medical attention.

Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

Causes serious eye irritation.
Suspected of causing cancer.
May damage the unborn child.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician : Treat symptomatically and supportively.

### **SECTION 5. FIRE-FIGHTING MEASURES**

TSC- the actual concentration or concentration range is withheld as a trade secret

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod: :

ucts

Hydrogen fluoride carbonyl fluoride

potentially toxic fluorinated compounds

aerosolized particulates

Carbon oxides

Nitrogen oxides (NOx) Chromium compounds

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Special protective equipment:

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

Follow safe handling advice (see section 7) and personal pro-

tective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g., by containment or

oil barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Clean up remaining materials from spill with suitable absor-

bent

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine

which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

### **SECTION 7. HANDLING AND STORAGE**

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust

ventilation.

Advice on safe handling : Do not get on skin or clothing.

Do not breathe vapors or spray mist.

Do not swallow. Do not get in eyes.

Wash skin thoroughly after handling.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

sessment

Keep container tightly closed.

Take care to prevent spills, waste and minimize release to the

environment.

Do not breathe decomposition products.

Conditions for safe storage : Keep in properly labeled containers.

Store locked up. Keep tightly closed.

Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:

Self-reactive substances and mixtures

Organic peroxides

Explosives Gases

Recommended storage tem: :

perature

41 - 77 °F / 5 - 25 °C

Further information on stor-

age stability

Do not freeze.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ingredients with workplace control parameters

according to the OSHA Hazard Communication Standard



# 459G-804 PRIMER GREEN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10/18/2024

 11.0
 06/24/2025
 1345333-00050
 Date of first issue: 02/27/2017

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,2',2"-Nitrilotriethanol	102-71-6	TWA	5 mg/m³	ACGIH
Silicon dioxide, amorphous	7631-86-9	TWA (Dust)	20 Million par- ticles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m³ (Silica)	NIOSH REL
Furfuryl alcohol	98-00-0	TWA	0.2 ppm	ACGIH
		ST	15 ppm 60 mg/m³	NIOSH REL
		TWA	10 ppm 40 mg/m <sup>3</sup>	NIOSH REL
		TWA	50 ppm 200 mg/m³	OSHA Z-1
N-Methyl-2-pyrrolidone	872-50-4	TWA	15 ppm 60 mg/m <sup>3</sup>	US WEEL
		STEL	30 ppm 120 mg/m <sup>3</sup>	US WEEL
Chromium oxide	1308-38-9	TWA	0.5 mg/m³ (chromium)	OSHA Z-1
		TWA	0.5 mg/m³ (chromium)	NIOSH REL
Triethylamine	121-44-8	TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		TWA	25 ppm 100 mg/m³	OSHA Z-1

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hydrogen fluoride	7664-39-3	TWA	0.5 ppm (Fluorine)	ACGIH
		С	2 ppm (Fluorine)	ACGIH
		TWA	3 ppm	OSHA Z-2
		С	6 ppm 5 mg/m³	NIOSH REL
		TWA	3 ppm 2.5 mg/m <sup>3</sup>	NIOSH REL
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		TWA	2 ppm 5 mg/m³	NIOSH REL

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

		ST	5 ppm 15 mg/m³	NIOSH REL
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m³	NIOSH REL
		ST	30,000 ppm 54,000 mg/m <sup>3</sup>	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	OSHA Z-1
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m³	NIOSH REL
		С	200 ppm 229 mg/m³	NIOSH REL
		TWA	50 ppm 55 mg/m³	OSHA Z-1

#### **Biological occupational exposure limits**

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
N-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after	100 mg/l	ACGIH BEI
				exposure ceases)		

**Engineering measures** 

Processing may form hazardous compounds (see section

10).

Minimize workplace exposure concentrations.

If sufficient ventilation is unavailable, use with local exhaust

ventilation.

#### Personal protective equipment

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 06/24/2025 1345333-00050 Date of first issue: 02/27/2017 11.0

Material Chemical-resistant gloves

Remarks Choose gloves to protect hands against chemicals depending

> on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks

and at the end of workday.

Wear the following personal protective equipment: Eye protection

Safety goggles

Skin and body protection Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Hygiene measures If exposure to chemical is likely during typical use, provide

eye flushing systems and safety showers close to the wor-

king place.

When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance liquid

Color green

No data available Odor

Odor Threshold No data available

9.5 - 10.5

Melting point/freezing point No data available

Initial boiling point and boiling :  $> 210 \, ^{\circ}\text{F} / > 99 \, ^{\circ}\text{C}$ 

range

Flash point does not flash

Evaporation rate No data available

Flammability (solid, gas) Not applicable

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Flammability (liquids) : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : 1.1950 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-

octanol/water

Not applicable

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 91 mPa.s

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle characteristics

Particle size : Not applicable

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

Hazardous decomposition products will be formed at elevated

temperatures.

Conditions to avoid : None known.

Incompatible materials : Acids

### **Hazardous decomposition products**

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Thermal decomposition : Hydrogen fluoride

Carbonyl difluoride Carbon dioxide Carbon monoxide

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 3,748 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

#### **Components:**

2,2',2"-Nitrilotriethanol:

Acute oral toxicity : LD50 (Rat): 6,400 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Silicon dioxide, amorphous:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

**Furfuryl alcohol:** 

Acute oral toxicity : LD50 (Rat): 132 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1.35 mg/l

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 657 mg/kg

N-Methyl-2-pyrrolidone:

Acute oral toxicity : LD50 (Rat): 4,150 mg/kg

Method: OECD Test Guideline 401

Remarks: The test was conducted equivalent or similar to

guideline

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Remarks: The test was conducted according to guideline

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 402

Remarks: The test was conducted equivalent or similar to

quideline

**Chromium oxide:** 

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

2,6,8-Trimethyl-4-nonyloxypolyethyleneoxyethanol:

Acute oral toxicity : LD50 (Rat): 3,300 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Triethylamine:

Acute oral toxicity : Acute toxicity estimate (Rat): 100 mg/kg

Method: Expert judgment

Acute inhalation toxicity : LC50 (Rat): 7.2 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: OECD Test Guideline 403

Assessment: Not corrosive to the respiratory tract.

Acute dermal toxicity : Acute toxicity estimate: 300 mg/kg

Method: Expert judgment

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

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Skin corrosion/irritation

Not classified based on available information.

**Components:** 

2,2',2"-Nitrilotriethanol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Silicon dioxide, amorphous:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Furfuryl alcohol:

Result : Skin irritation

N-Methyl-2-pyrrolidone:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Remarks : The test was conducted equivalent or similar to guideline

**Chromium oxide:** 

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

2,6,8-Trimethyl-4-nonyloxypolyethyleneoxyethanol:

Result : Skin irritation

Triethylamine:

Species : Rabbit

Result : Corrosive after 3 minutes or less of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

**Components:** 

2,2',2"-Nitrilotriethanol:

Species : Rabbit

Result : No eye irritation

Silicon dioxide, amorphous:

Species : Rabbit

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Result : No eye irritation

Method : OECD Test Guideline 405

Furfuryl alcohol:

Result : Irritation to eyes, reversing within 21 days Remarks : Based on national or regional regulation.

N-Methyl-2-pyrrolidone:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Method : OECD Test Guideline 405

Remarks : The test was conducted equivalent or similar to guideline

**Chromium oxide:** 

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

2,6,8-Trimethyl-4-nonyloxypolyethyleneoxyethanol:

Result : Irreversible effects on the eye

Triethylamine:

Species : Rabbit

Result : Irreversible effects on the eye

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### **Components:**

### 2,2',2"-Nitrilotriethanol:

Test Type : Maximization Test
Routes of exposure : Skin contact
Species : Guinea pig

Method : OECD Test Guideline 406

Result : negative

Furfuryl alcohol:

Test Type : Local lymph node assay (LLNA)

Routes of exposure : Skin contact Species : Mouse Result : negative

Routes of exposure : Inhalation

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Species : Mouse Result : equivocal

N-Methyl-2-pyrrolidone:

Test Type : Local lymph node assay (LLNA)

Routes of exposure : Skin contact Species : Mouse

Method : OECD Test Guideline 429

Result : negative

Remarks : Based on data from similar materials

**Chromium oxide:** 

Test Type : Buehler Test
Routes of exposure : Skin contact
Species : Guinea pig

Method : OECD Test Guideline 406

Result : negative

Remarks : Based on data from similar materials

Triethylamine:

Test Type : Mouse ear swelling test (MEST)

Routes of exposure : Skin contact
Species : Mouse
Result : negative

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

**Components:** 

2,2',2"-Nitrilotriethanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Silicon dioxide, amorphous:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow

cytogenetic test, chromosomal analysis)

Species: Rat

Application Route: Ingestion

Result: negative

**Furfuryl alcohol:** 

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Result: positive

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Test Type: Chromosome aberration test in vitro

Result: equivocal

Genotoxicity in vivo : Test Type: In vivo mammalian alkaline comet assay

Species: Mouse

Application Route: Ingestion

Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

N-Methyl-2-pyrrolidone:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Remarks: The test was conducted according to guideline

Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Remarks: The test was conducted according to guideline

Test Type: DNA damage and repair, unscheduled DNA syn-

thesis in mammalian cells (in vitro) Method: OECD Test Guideline 482

Result: negative

Remarks: The test was conducted equivalent or similar to

guideline

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 474

Result: negative

Remarks: The test was conducted according to guideline

**Chromium oxide:** 

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection Method: OECD Test Guideline 474

Result: negative

Triethylamine:

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Test Type: In vitro sister chromatid exchange assay in mam-

malian cells Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow

cytogenetic test, chromosomal analysis)

Species: Rat

Application Route: inhalation (vapor)

Result: negative

#### Carcinogenicity

Suspected of causing cancer.

#### **Components:**

#### 2,2',2"-Nitrilotriethanol:

Species : Rat

Application Route : Skin contact Exposure time : 103 weeks Result : negative

#### Silicon dioxide, amorphous:

Species : Rat
Application Route : Ingestion
Exposure time : 103 weeks
Result : negative

### Furfuryl alcohol:

Species : Rat

Application Route : inhalation (vapor)

Exposure time : 2 Years
Result : positive

Carcinogenicity - Assess-

ment

Limited evidence of carcinogenicity in animal studies

### N-Methyl-2-pyrrolidone:

Species : Rat
Application Route : Ingestion
Exposure time : 2 Years

Method : OECD Test Guideline 451

Result : negative

Remarks : The test was conducted according to guideline

Species : Rat
Application Route : Inhalation
Exposure time : 2 Years

Method : OECD Test Guideline 453

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Result : negative

Remarks : The test was conducted equivalent or similar to guideline

**Chromium oxide:** 

Species : Rat
Application Route : Ingestion
Exposure time : 2 Years
Result : negative

IARC Group 2B: Possibly carcinogenic to humans

Furfuryl alcohol 98-00-0

OSHA No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

May damage the unborn child.

**Components:** 

2,2',2"-Nitrilotriethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Effects on fetal development : Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 421

Result: negative

Silicon dioxide, amorphous:

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion

Result: negative

**Furfuryl alcohol:** 

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion

Result: negative

N-Methyl-2-pyrrolidone:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Species: Rat

Application Route: Ingestion

Method: OECD Test Guideline 416

Result: negative

Remarks: The test was conducted according to guideline

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 414

Result: positive

Remarks: The test was conducted according to guideline

Test Type: Fertility/early embryonic development

Species: Rat

Application Route: inhalation (vapor) Method: OECD Test Guideline 414

Result: positive

Remarks: The test was conducted equivalent or similar to

guideline

Test Type: Embryo-fetal development

Species: Rabbit

Application Route: Ingestion Method: OECD Test Guideline 414

Result: positive

Remarks: The test was conducted equivalent or similar to

guideline

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on development, based on

animal experiments.

Chromium oxide:

Effects on fetal development: Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Triethylamine:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 414

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Result: negative

Remarks: Based on data from similar materials

#### STOT-single exposure

Not classified based on available information.

Components:

Furfuryl alcohol:

Assessment : May cause respiratory irritation.

N-Methyl-2-pyrrolidone:

Assessment : May cause respiratory irritation.

Triethylamine:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified based on available information.

**Components:** 

2,2',2"-Nitrilotriethanol:

Assessment : No significant health effects observed in animals at concentra-

tions of 200 mg/kg bw or less., No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Repeated dose toxicity

**Components:** 

2,2',2"-Nitrilotriethanol:

Species : Rat

NOAEL : >= 1,000 mg/kg

Application Route : Ingestion Exposure time : 90 Days

Species : Rat

NOAEL : >= 0.5 mg/l

Application Route : inhalation (dust/mist/fume)

Exposure time : 28 Days

Method : OECD Test Guideline 412

Species : Rat

NOAEL : 125 mg/kg
Application Route : Skin contact
Exposure time : 90 Days

Silicon dioxide, amorphous:

Species : Rat NOAEL : 1.3 mg/m³

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Application Route : inhalation (dust/mist/fume)

Exposure time : 13 Weeks

N-Methyl-2-pyrrolidone:

Species : Rat, male
NOAEL : 169 mg/kg
LOAEL : 433 mg/kg
Application Route : Ingestion
Exposure time : 90 Days

Method : OECD Test Guideline 408

Remarks : The test was conducted according to guideline

 Species
 : Rat

 NOAEL
 : 0.5 mg/l

 LOAEL
 : 1 mg/l

Application Route : inhalation (dust/mist/fume)

Exposure time : 96 Days

Method : OECD Test Guideline 413

Remarks : The test was conducted according to guideline

Species : Rabbit, male
NOAEL : 826 mg/kg
LOAEL : 1,653 mg/kg
Application Route : Skin contact
Exposure time : 20 Days

Method : OECD Test Guideline 410

Remarks : The test was conducted equivalent or similar to guideline

**Chromium oxide:** 

Species : Rat

NOAEL : 2,000 mg/kg
Application Route : Ingestion
Exposure time : 90 Days

Triethylamine:

Species : Rat NOAEL : 1.02 mg/l

Application Route : inhalation (vapor)

Exposure time : 28 Weeks

**Aspiration toxicity** 

Not classified based on available information.

**Experience with human exposure** 

**Components:** 

N-Methyl-2-pyrrolidone:

Skin contact : Symptoms: Skin irritation

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 Date of first issue: 02/27/2017 11.0 06/24/2025 1345333-00050

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### Components:

#### 2.2'.2"-Nitrilotriethanol:

LC50 (Pimephales promelas (fathead minnow)): 11,800 mg/l Toxicity to fish

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia (water flea)): 609.88 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 512 mg/l

Exposure time: 72 h

Test substance: Neutralized product

EC10 (Desmodesmus subspicatus (green algae)): 26 mg/l

Exposure time: 72 h

Test substance: Neutralized product

Toxicity to daphnia and other: aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 16 mg/l

Exposure time: 21 d

Toxicity to microorganisms : IC50: > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Silicon dioxide, amorphous:

Toxicity to fish LC50 (Danio rerio (zebra fish)): > 10,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): > 10,000

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): 10,000

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

**Furfuryl alcohol:** 

Toxicity to fish LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Exposure time: 48 h

Toxicity to daphnia and other : aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 24 h

N-Methyl-2-pyrrolidone:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 24 h Method: DIN 38412

Remarks: The test was conducted according to guideline

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 600.5 mg/l

Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 92.6 mg/l

Exposure time: 72 h

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 12.5 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: The test was conducted according to guideline

Toxicity to microorganisms : EC50 (activated sludge): > 600 mg/l

Exposure time: 30 min Method: ISO 8192

Remarks: The test was conducted according to guideline

**Chromium oxide:** 

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): > 848.6

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Danio rerio (zebra fish)): 1,000 mg/l

Exposure time: 30 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): > 0.02 mg/l

Exposure time: 21 d

Remarks: No toxicity at the limit of solubility.

Toxicity to microorganisms : EC50: > 10,000 mg/l

Exposure time: 3 h

2,6,8-Trimethyl-4-nonyloxypolyethyleneoxyethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 39 mg/l

Exposure time: 96 h

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 06/24/2025 1345333-00050 Date of first issue: 02/27/2017 11.0

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 81.2 mg/l

Exposure time: 48 h

Triethylamine:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 36 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia (water flea)): 17 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): 1.1

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

ErC50 (Pseudokirchneriella subcapitata (green algae)): 8 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Ceriodaphnia dubia (water flea)): 7.1 mg/l

Exposure time: 7 d

Toxicity to microorganisms EC10 (Pseudomonas putida): 71 mg/l

> Exposure time: 17 h Method: DIN 38 412 Part 8

Persistence and degradability

**Components:** 

2,2',2"-Nitrilotriethanol:

Result: Readily biodegradable. Biodegradability

> Biodegradation: 96 % Exposure time: 19 d

**Furfuryl alcohol:** 

Biodegradability Result: Readily biodegradable.

> Biodegradation: 97.7 % Exposure time: 14 d

Method: OECD Test Guideline 301C

N-Methyl-2-pyrrolidone:

Biodegradability Result: Readily biodegradable.

Biodegradation: 73 % Exposure time: 28 d

Method: OECD Test Guideline 301C

Remarks: The test was conducted according to guideline

2,6,8-Trimethyl-4-nonyloxypolyethyleneoxyethanol:

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

Biodegradability : Result: Not readily biodegradable.

Triethylamine:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 80.3 %

Exposure time: 29 d

Method: OECD Test Guideline 301B

Remarks: Based on data from similar materials

Bioaccumulative potential

**Components:** 

2,2',2"-Nitrilotriethanol:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): < 3.9

Partition coefficient: n-

octanol/water

: log Pow: -1.9

**Furfuryl alcohol:** 

Partition coefficient: n-

octanol/water

log Pow: 0.3

N-Methyl-2-pyrrolidone:

Partition coefficient: n- : log Pow: -0.46

octanol/water

Method: OECD Test Guideline 107

Remarks: The test was conducted according to guideline

**Chromium oxide:** 

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 260 - 800

Triethylamine:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): < 0.5 Method: OECD Test Guideline 305C

Partition coefficient: n-

octanol/water

: log Pow: 1.45

Mobility in soil

No data available

Other adverse effects

No data available

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with local regulations.

Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

**IATA-DGR** 

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **Domestic regulation**

#### 49 CFR

Not regulated as a dangerous good

### Special precautions for user

Not applicable

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Carcinogenicity

Reproductive toxicity

Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version 11.0	Revision Date: 06/24/2025	SDS Number: 1345333-00050	Date of last issue Date of first issue		
		N-Methyl-2- pyrrolidone	872-50-4	>= 1 - < 5 %	
		Chromium oxide	1308-38-9	>= 1 - < 5 %	
	ile organic compound ) content	VOC content: 509 Remarks: less ex	•		
		VOC content: 171 Remarks: as pack	-		

### **US State Regulations**

# Pennsylvania Right To Know

Water	7732-18-5
Fluoropolymer	Trade secret
2,2',2"-Nitrilotriethanol	102-71-6
Polyamide-imide	Trade secret
Silicon dioxide, amorphous	7631-86-9
Furfuryl alcohol	98-00-0
N-Methyl-2-pyrrolidone	872-50-4
Chromium oxide	1308-38-9
Triethylamine	121-44-8

#### California Prop. 65

WARNING: This product can expose you to chemicals including Furfuryl alcohol, which is/are known to the State of California to cause cancer, and

N-Methyl-2-pyrrolidone, 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.

#### **California List of Hazardous Substances**

Silicon dioxide, amorphous	7631-86-9
Furfuryl alcohol	98-00-0
Chromium oxide	1308-38-9

### **California Permissible Exposure Limits for Chemical Contaminants**

2,2',2"-Nitrilotriethanol	102-71-6
Silicon dioxide, amorphous	7631-86-9
Furfuryl alcohol	98-00-0
N-Methyl-2-pyrrolidone	872-50-4
Chromium oxide	1308-38-9

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

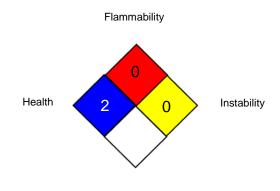
according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 11.0 06/24/2025 1345333-00050 Date of first issue: 02/27/2017

### NFPA 704:



Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-2 : USA. Occupational Exposure Limits (OSHA) - Table Z-2 OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

ACGIH / C : Ceiling limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

NIOSH REL / C : Ceiling value not be exceeded at any time.

OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-2 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average

US WEEL / TWA : 8-hr TWA

US WEEL / STEL : Short-Term TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Haz-

according to the OSHA Hazard Communication Standard



### 459G-804 PRIMER GREEN

Version Revision Date: SDS Number: Date of last issue: 10/18/2024 1345333-00050 Date of first issue: 02/27/2017 11.0 06/24/2025

ardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety

**Revision Date** 06/24/2025

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-**Data Sheet** cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8