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 Substance key: 000000336768
 Revision Date: 03/26/2020

 Version: 2 - 4 / USA
 Date of printing: 04/15/2021

## **SECTION 1. IDENTIFICATION**

Identification of the

company:

Clariant Corporation 4000 Monroe Road

Charlotte, NC, 28205

Telephone No.: +1 704-331-7000

Information of the substance/preparation:

**BU Oil & Mining Services** 

Product Stewardship +1-704-331-7710

Emergency tel. number: +1 800-424-9300(CHEMTREC)

Trade name: SURFTREAT 9337

Material number: 233035 Chemical family: Mixture

Primary product use: Additive

# **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200

Skin corrosion : Category 1A

Serious eye damage : Category 1

**GHS** label elements

Hazard pictograms

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/



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shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

None known.

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

Substance / Mixture : Mixture

Chemical nature : Mixture

# Components

Chemical name	CAS-No.	Concentration (% w/w)
4-Nonylphenol, branched,	127087-87-0	<= 15
ethoxylated		
Phosphoric acid	7664-38-2	>= 10
Citric acid	77-92-9	<= 10

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

If inhaled : Move the victim to fresh air.

Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention.

Never give anything by mouth to an unconscious person.

In case of skin contact : In case of contact, immediately wash with soap and water for

at least 15 minutes. Remove contaminated clothing and shoes while washing. Isolate contaminated clothing for cleaning or disposal. Do not reuse unless thoroughly cleaned. Dispose of contaminated leatherwear. Get immediate medical

attention.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.



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If swallowed : Get medical attention immediately.

Do NOT induce vomiting.

Most important symptoms and effects, both acute and

delayed

The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

Notes to physician : Corrosive. May cause stricture. If lavage is performed,

suggest endotracheal and/or esophagoscopic control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the

patient.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Cool containers/tanks with water spray.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during

firefighting

In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2) Oxides of phosphorus

Emits toxic and corrosive fumes under fire conditions.

Further information : Wear positive pressure self-contained breathing apparatus

and full protective gear. Do not direct a solid stream of water or foam into hot burning pools; this may spread fire, cause frothing, and increase fire intensity. Containers can build up pressure if exposed to heat and/or fire. Vapors may form an explosive mixture with air. Vapors may travel to source of ignition and flash back. Use water spray to keep containers

cool.

Special protective equipment:

for firefighters

Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

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

Personal precautions, protective equipment and emergency procedures : Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent, and place in a suitable

container.

Absorbent materials such as dry sand, absorbent booms, and



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vermiculite may be used to keep material from entering drains,

sewers, or streams.

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

Advice on safe handling : Avoid breathing vapours.

Avoid contact with skin, eyes and clothing.

Use only with adequate ventilation and proper protective

eyewear, gloves, and clothing.

Store in a well-ventilated place. Keep container tightly closed.

Further information on storage conditions

: Store in a cool, dry location away from heat, sparks and open

flames.

Store in original container. Keep container tightly closed.

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

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0

**Engineering measures** : Local ventilation recommended - mechanical ventilation may

be used.

Personal protective equipment

Respiratory protection : If airborne concentrations pose a health hazard, become

irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory

protection requirements under 29CFR1910.134.

Hand protection

Remarks : Chemical resistant gloves (butyl rubber, nitrile rubber,

polyvinyl alcohol). However, please note that PVA degrades

in water.

Eye protection : Tightly fitting safety goggles



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Face-shield

Skin and body protection Wear suitable protective equipment.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** 

**Appearance** Liquid

Colour Clear, colorless

Odour pungent

Odour Threshold not determined

pΗ < 2.0

Freezing point < 32 °F / 0 °C

Initial boiling point 219 °F / 104 °C

> 200.1 °F / 93.4 °C Flash point

Method: closed cup

Evaporation rate not determined

Flammability (solid, gas) Not applicable

Upper explosion limit / upper

flammability limit

not determined

Lower explosion limit / Lower :

flammability limit

not determined

Vapour pressure not determined

Relative vapour density not determined

Density 1.06 - 1.11 g/cm3 (77 °F / 25 °C)

Solubility(ies)

Water solubility soluble

Partition coefficient: n-

log Pow: 3.16

octanol/water Information refers to the main component.

Auto-ignition temperature Not applicable



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Decomposition temperature : > 219 °F / > 104 °C

Stable up to boiling point.

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

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

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Stable

Conditions to avoid : Alkaline materials. attacks mild steel, galzanized iron,

aluminum and zinc

Keep away from oxidizing agents.

Incompatible materials : Metals

Light and/or alkaline metals

Oxidizing agents

Hazardous decomposition

products

No decomposition if stored and applied as directed.

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

# Information on likely routes of exposure

Eye contact Skin contact Ingestion Inhalation

## **Acute toxicity**

**Product:** 

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

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

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

**Components:** 

Phosphoric acid:

Acute oral toxicity : LD50 (Rat): approx. 2,600 mg/kg

Method: OECD Test Guideline 423



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GLP: no

Acute inhalation toxicity : Remarks: Study not performed as the substance is corrosive.

Acute dermal toxicity : Remarks: Study not performed as the substance is corrosive.

Citric acid:

Acute oral toxicity : LD50 (Mouse, male and female): 5,400 mg/kg

Method: OECD Test Guideline 401

GLP: no

Remarks: No significant adverse effects were reported

Acute inhalation toxicity : Remarks: not required

Acute dermal toxicity : LC50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

## Skin corrosion/irritation

## **Product:**

Result: Corrosive

Remarks: The product has not been tested. The information is derived from the properties of the

individual components.

#### **Components:**

## Phosphoric acid:

Species: Rabbit Exposure time: 24 h Method: Other

Result: Causes burns. GLP: no data available

# Citric acid:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

# Serious eye damage/eye irritation

#### **Product:**

Result: Corrosive

Remarks: The product has not been tested. The information is derived from the properties of the

individual components.



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## **Components:**

## Phosphoric acid:

Assessment: Risk of serious damage to eyes.

Remarks: Study not performed as the substance is corrosive.

#### Citric acid:

Species: rabbit eye

Assessment: Irritating to eyes. Method: OECD Test Guideline 405

GLP: yes

# Respiratory or skin sensitisation

#### **Product:**

Result: non-sensitizing

Remarks: The product has not been tested. The information is derived from the properties of the

individual components.

## **Components:**

#### Phosphoric acid:

Remarks: Study not performed as the substance is corrosive.

Assessment: Causes severe skin burns and eye damage.

## Citric acid:

Exposure routes: Dermal Result: Not a skin sensitizer. Remarks: not required

Assessment: Causes serious eye irritation.

## Germ cell mutagenicity

#### **Components:**

## Phosphoric acid:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium Concentration: 50 - 5000 μg/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: Ames test Test system: Escherichia coli Concentration: 50 - 5000 µg/plate

Metabolic activation: with and without metabolic activation



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Method: OECD Test Guideline 471

Result: negative GLP: yes

Test Type: In vitro gene mutation study in mammalian cells

Test system: mouse lymphoma cells

Concentration: 0, 61.25, 122.5, 245, 490, 735

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Concentration: 0, 30.63, 61.25, 122.5, 245, 4

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Germ cell mutagenicity -

Assessment

In vitro tests did not show mutagenic effects

Citric acid:

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

Test system: Human lymphocytes Concentration: 50 - 3000 µg/ml Metabolic activation: without Method: OECD Test Guideline 487

Result: positive

GLP: No information available.

Test Type: Ames test

Test system: Salmonella typhimurium Concentration: <= 5000 µg/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Rat (male) Strain: Sprague-Dawley Cell type: Bone marrow

Application Route: oral (gavage)

Exposure time: 1 - 5 d

Dose: 1-5x 1,2-120-300-3500 mg/kg Method: OECD Test Guideline 475

Result: negative

GLP: no



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Test Type: dominant lethal test

Species: Rat (male)
Strain: Sprague-Dawley
Cell type: Bone marrow

Application Route: oral (gavage)

Exposure time: 1 - 5 d

Dose: 1-5x 1,2-120-300-3500 mg/kg

Method: Other Result: negative

GLP: no

Germ cell mutagenicity -

Assessment

: Weight of evidence does not support classification as a germ

cell mutagen.

Carcinogenicity

**Components:** 

Phosphoric acid:

Carcinogenicity -

Assessment

No information available.

: Not classifiable as a human carcinogen.

Citric acid:

Carcinogenicity -Assessment

IARC Not listed

OSHA Not listed

NTP Not listed

Reproductive toxicity

Components:

Phosphoric acid:

Effects on fertility : Test Type: One generation study

Species: Rat, male and female

Strain: Sprague-Dawley

Application Route: oral (gavage)
Dose: 0, 125, 250 and 500 mg/kg
Duration of Single Treatment: 42 - 54 d

Frequency of Treatment: 1 daily

General Toxicity - Parent: NOAEL: >= 500 mg/kg body weight General Toxicity F1: NOAEL: >= 500 mg/kg body weight

Fertility: NOAEL: >= 500 mg/kg body weight

Method: OECD Test Guideline 422

GLP: yes

Effects on foetal development

Test Type: Pre-natal Species: Mouse, female



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Strain: CD1

Application Route: oral (gavage) Dose: 3,7 - 17,2 - 79,7 - 370 mg/kg Duration of Single Treatment: 10 d

General Toxicity Maternal: NOAEL: >= 370 mg/kg body weight

Teratogenicity: NOAEL: >= 370 mg/kg body weight

Method: OECD Test Guideline 414

GLP: no

Remarks: By analogy with a product of similar composition

Test Type: Pre-natal Species: Rat, female

Strain: wistar

Application Route: oral (gavage)
Dose: 4,1 - 19 - 88,3 - 410 mg/kg
Duration of Single Treatment: 10 d

General Toxicity Maternal: NOAEL: >= 410 mg/kg body weight

Teratogenicity: NOAEL: >= 410 mg/kg body weight

Method: OECD Test Guideline 414

GLP: no

Remarks: By analogy with a product of similar composition

Reproductive toxicity -

Assessment

No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

Citric acid:

Effects on foetal development

Test Type: Fertility/early embryonic development

Species: Rat, female

Strain: wistar

Application Route: oral (gavage) Dose: 0, 2.95, 13.7, 63.6, 295 mg/k Duration of Single Treatment: 10 d Frequency of Treatment: 1 daily

Teratogenicity: NOAEL: > 295 mg/kg body weight

Method: Other GLP: no

Reproductive toxicity -

Assessment

No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

#### STOT - single exposure

## **Components:**

## Phosphoric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

# Citric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.



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## STOT - repeated exposure

#### **Components:**

## Phosphoric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Citric acid:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## Repeated dose toxicity

## **Components:**

## Phosphoric acid:

Species: Rat, male and female

NOAEL: 250 mg/kg

Application Route: oral (gavage) Exposure time: 42 d (m), 54 d (fem)

Number of exposures: daily Dose: 0, 125, 250 and 500 mg/kg

Group: yes

Method: OECD Test Guideline 422

GLP: yes

Repeated dose toxicity - : Causes severe skin burns and eye damage.

Assessment

## Citric acid:

Species: Rat

NOAEL: 4000 mg/kg bw/day LOAEL: 8,000 mg/kg

Application Route: oral (gavage)

Exposure time: 10 d Number of exposures: daily Dose: 2, 4, 8, 16 g/kg bw/day

Group: yes Method: Other GLP: no

Repeated dose toxicity - :

: Causes serious eye irritation.

Assessment



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# **Aspiration toxicity**

## **Components:**

## Phosphoric acid:

No aspiration toxicity classification

#### Citric acid:

No aspiration toxicity classification

# **Experience with human exposure**

**Product:** 

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

## **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

**Product:** 

Toxicity to fish : LC50 (Fish): 10 - 100 mg/l

Exposure time: 96 h

Remarks: The values mentioned are those of the active

ingredient.

## **Components:**

Phosphoric acid:

Toxicity to fish : Other (Lepomis macrochirus (Bluegill sunfish)): pH 3-3,3

End point: mortality Exposure time: 96 h Test Type: Other Analytical monitoring: no

Method: Other

GLP: no data available

Toxicity to daphnia and other :

aquatic invertebrates

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

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

NOEC (Daphnia magna (Water flea)): 56 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202



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GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Toxicity to fish (Chronic

toxicity)

Remarks: not required

Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

Remarks: not required

Toxicity to microorganisms Test Type: aquatic

Remarks: not required

Citric acid:

Toxicity to fish LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l

> End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 203

GLP: no

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,535 mg/l

End point: mortality Exposure time: 24 h Test Type: static test Analytical monitoring: no

Method: Other GLP: no

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to algae/aquatic

plants

NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l

End point: Biomass



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Exposure time: 8 d Test Type: static test Analytical monitoring: no

Method: Other GLP: no

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to fish (Chronic

toxicity)

Remarks: not required

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

Remarks: not required

Toxicity to microorganisms : (Pseudomonas putida): > 10,000 mg/l

End point: Growth rate Exposure time: 16 h Test Type: aquatic

Analytical monitoring: no data available

Method: Other

GLP: No information available.

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to terrestrial

organisms

NOEC (other avian): > 4,000 mg/kg

Exposure time: 14 d End point: mortality Method: Other

# Persistence and degradability

**Product:** 

Biodegradability : Result: Inherently biodegradable.

**Components:** 

Phosphoric acid:

Biodegradability : Remarks: Not applicable for inorganic compound.

Physico-chemical

removability

Remarks: Can be eliminated from water by precipitation.

Can be eliminated from water by flocculation.

Citric acid:

Biodegradability : aerobic

Inoculum: domestic sewage Concentration: 10 mg/l Carbon dioxide (CO2)

Result: Readily biodegradable.

Biodegradation: 97 % Exposure time: 28 d



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Method: OECD Test Guideline 301B GLP: No information available.

aerobic

Inoculum: domestic sewage Concentration: 3 - 20 mg/l

DOC decrease

Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 19 d

Method: OECD Test Guideline 301E GLP: No information available.

aerobic

Inoculum: domestic sewage Concentration: 400 mg/l

DOC decrease

Result: Readily biodegradable.

Biodegradation: 85 % Exposure time: 14 d

Method: OECD Test Guideline 302B GLP: No information available.

Physico-chemical

removability

Remarks: Readily biodegradable, according to appropriate

OECD test.

# **Bioaccumulative potential**

## **Components:**

Phosphoric acid:

Partition coefficient: n-

octanol/water

Remarks: inorganic

Citric acid:

Bioaccumulation : Bioconcentration factor (BCF): 3.2

Method: calculated

GLP: no

Partition coefficient: n-

octanol/water

: log Pow: -1.55 Method: Other

**Mobility in soil** no data available

Other adverse effects

**Components:** 

Phosphoric acid:

Environmental fate and

pathways

: not available



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Results of PBT and vPvB

assessment

The substance is not identified as a PBT or as a vPvB

substance.

Remarks: Not relevant for inorganic substances

Additional ecological

information

If it is not neutralised, observe pH value

Product must not be released into water without pre-

treatment.

Do not allow to enter ground water, waterways or waste water

undiluted or in large quantities.

May contribute to eutrophication in static waters, therefore

should not be released into surface waters Can be eliminated from water by flocculation.

Citric acid:

Environmental fate and

pathways

no data available

Results of PBT and vPvB

assessment

The substance is not identified as a PBT or as a vPvB

substance.

Additional ecological

information

: The product should not be allowed to enter drains, water

courses or the soil.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

RCRA - Resource

Conservation and Recovery

Conservation and Recover

Authorization Act Waste from residues : Yes -- If it becomes a waste as sold.

Must be incinerated in a suitable incineration plant holding a

permit delivered by the competent authorities.

# **SECTION 14. TRANSPORT INFORMATION**

**DOT Regulation:** 

UN/NA-number: UN 1805

Proper shipping name: Phosphoric acid solution

Primary hazard class: 8
Packing group: III

Reportable Quantity: 22,502.000 kg Phosphoric acid

**Emergency Response** 

Guide:

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**IATA** 

UN/ID number: UN 1805

Proper shipping name: Phosphoric acid, solution

Primary risk: 8
Packing group: III

Remarks: Shipment permitted

**IMDG** 

UN no.: UN 1805

Proper shipping name: Phosphoric acid, solution

Primary risk: 8
Packing group: III

EmS: F-A S-B

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

# **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Phosphoric acid	7664-38-2	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ	
		(lbs)	(lbs)	
Ethylene oxide	75-21-8	10	*	

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : This product does not contain any toxic chemical listed under

Section 313 of the Emergency Planning and Community

Right-To-Know Act of 1986.

# The components of this product are reported in the following inventories:

TSCA : All components are compliant with the TSCA Inventory

Notification (Active) rule.

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

#### **Further information**

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits



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OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

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

Limits for Air Contaminants

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

OSHA P0 / TWA : 8-hour time weighted average OSHA P0 / STEL : Short-term exposure limit OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; 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 Hazardous 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; 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

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