

RHODUNA® PT ONE Initial Concentrate

Version 1.0

US

SDS Number: 300000007861

Revision Date: 03/31/2021

SECTION 1. IDENTIFICATION

Product name : RHODUNA® PT ONE Initial Concentrate
Material number : 000000574421000212
Product code : 300000007861

Manufacturer or supplier's details

Company name of supplier : Umicore Galvanotechnik GmbH
Address : Umicore Galvanotechnik GmbH
Klarenbergstraße 53-79
73525 Schwäbisch Gmünd
Germany
Telephone : +49 (0)7171 607-01
Telefax : +497171607316
E-mail address of person responsible for the SDS : info.ipds@umicore.com

Poison Center

Telephone : +1 800 222 1222
Hours of operation : 24HRS

Supplier

Emergency telephone number : For transport in Europe, Central- and South America, Israel and Africa (Non-Arabic speaking countries):(+32) 3 213 15 70
For transport in the Middle East (Israel excluded) & Arabic speaking Africa:(+32) 3 213 33 79
For transport in the USA and Canada:(+1)-877 986 4267
For transport in Asian and the Pacific (China excluded):(+65) 62 64 78 36
For transport in China:(+86) 400 88 71 190
Hours of operation : This telephone number is available 24 hours per day, 7 days per week.

Recommended use of the chemical and restrictions on use

Recommended use : Electroplating

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Corrosive to metals : Category 1
Skin corrosion : Category 1

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Serious eye damage : Category 1

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
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): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
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.
P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 30 %

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sulphuric acid	7664-93-9	<= 29
orthophosphoric acid	7664-38-2	<= 1
dirhodium trisulphate	10489-46-0	<= 0.5

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and get medical attention immediately.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Wash contaminated clothing before reuse.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Remove contact lenses.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Protect unharmed eye.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Skin contact may provoke the following symptoms:
Burn
corrosive effects
Redness

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In case of eye contact
Excessive lachrymation

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Sulphur oxides
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : No special protective equipment required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Evacuate personnel to safe areas.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Neutralize with chalk, alkali solution or ammonia.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

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Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.
To maintain product quality, do not store in heat or direct sunlight.

Materials to avoid : Keep away from strong bases.
Keep away from metals.

Further information on storage stability : Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Sulphuric acid	7664-93-9	TWA (Thoracic particulate matter)	0.2 mg/m ³	ACGIH
		TWA	1 mg/m ³	NIOSH REL
		TWA	1 mg/m ³	OSHA Z-1
		TWA	1 mg/m ³	OSHA P0
orthophosphoric acid	7664-38-2	TWA	1 mg/m ³	ACGIH
		STEL	3 mg/m ³	ACGIH
		TWA	1 mg/m ³	NIOSH REL
		ST	3 mg/m ³	NIOSH REL
		TWA	1 mg/m ³	OSHA Z-1
		TWA	1 mg/m ³	OSHA P0
		STEL	3 mg/m ³	OSHA P0
dirhodium trisulphate	10489-46-0	TWA	0.001 mg/m ³ (Rhodium)	OSHA Z-1
		TWA	0.01 mg/m ³ (Rhodium)	ACGIH
		TWA	0.001 mg/m ³ (Rhodium)	OSHA P0
		TWA	0.001 mg/m ³ (Rhodium)	NIOSH REL

Engineering measures : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment
Hand protection

Material : Nitrile rubber
Break through time : > 30 min
Glove thickness : 0.40 mm

Eye protection : Wear face-shield and protective suit for abnormal processing problems.

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Wear safety glasses with side shields or goggles.

- Skin and body protection : Impervious clothing
Footwear protecting against chemicals
- Hygiene measures : Avoid contact with skin, eyes and clothing.
General industrial hygiene practice.
Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : yellow
- Odour : No data available
- pH : ca. 1
- Melting point/range : not determined
- Boiling point/boiling range : not determined
- Flash point : does not flash
- Flammability (liquids) : Does not sustain combustion.
- Vapour pressure : not determined
- Density : ca. 1.15 g/cm³
- Solubility(ies)
Water solubility : completely miscible
- Partition coefficient: n-octanol/water : No data available
- Auto-ignition temperature : No data available
- Viscosity
Viscosity, kinematic : not determined
- Metal corrosion rate : Corrosive to metals

SECTION 10. STABILITY AND REACTIVITY

- Reactivity : Stable at normal ambient temperature and pressure.
- Chemical stability : No decomposition if stored and applied as directed.
- Possibility of hazardous reactions : Stable under recommended storage conditions.

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Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Strong bases Alkali metals Alkaline earth metals Metals
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Components:****Sulphuric acid:**

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg GLP: no
Acute inhalation toxicity	:	LC50 (Rat, male and female): 0.375 mg/l Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: no
Acute dermal toxicity	:	Assessment: No data available Remarks: data waiving in REACH dossier

orthophosphoric acid:

Acute oral toxicity	:	LD50 (Rat, female): 34,000 mg/kg Method: OECD Test Guideline 423 GLP: no
Acute inhalation toxicity	:	Assessment: No data available
Acute dermal toxicity	:	Assessment: No data available

dirhodium trisulphate:

Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral toxicity Remarks: data waiving in REACH dossier
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhalation toxicity Remarks: data waiving in REACH dossier Assessment: Corrosive to the respiratory tract.
Acute dermal toxicity	:	Assessment: No data available Remarks: data waiving in REACH dossier

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Skin corrosion/irritation**Components:****Sulphuric acid:**

Result : Corrosive after 3 minutes or less of exposure
Remarks : data waiving in REACH dossier

orthophosphoric acid:

Result : Corrosive after 3 minutes to 1 hour of exposure

dirhodium trisulphate:

Species : in vitro membrane barrier
Exposure time : 1 h
Assessment : Causes burns.
Method : OECD Test Guideline 435
Result : Corrosive after 3 minutes to 1 hour of exposure
GLP : yes

Serious eye damage/eye irritation**Components:****Sulphuric acid:**

Remarks : data waiving in REACH dossier
Not classified due to data which are conclusive although insufficient for classification.

dirhodium trisulphate:

Assessment : Corrosive
Remarks : data waiving in REACH dossier

Respiratory or skin sensitisation**Components:****Sulphuric acid:**

Exposure routes : Skin contact
Remarks : data waiving in REACH dossier

Exposure routes : Inhalation
Remarks : data waiving in REACH dossier

dirhodium trisulphate:

Remarks : No data available

Germ cell mutagenicity**Components:****Sulphuric acid:**

Genotoxicity in vitro : Test Type: Ames test

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Test system: Salmonella typhimurium TA98, TA100, TA1535, TA1537
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 GLP: yes
 Remarks: Based on read across from structural related substance

Test Type: Ames test
 Test system: Salmonella typhimurium TA97, TA98, TA100, TA102, TA 1535
 Metabolic activation: with and without metabolic activation
 Method: No guideline followed
 Result: negative
 GLP: no

Genotoxicity in vivo : Remarks: data waiving in REACH dossier

dirhodium trisulphate:

Genotoxicity in vitro : Test Type: reverse mutation assay
 Test system: Salmonella typhimurium TA98, TA100, TA102, TA 1535, TA1537
 Concentration: 160,300,625,1250,2500,5000µg/p
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: positive
 GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
 Species: Mouse (male and female)
 Strain: NMRI
 Cell type: Bone marrow
 Application Route: Intraperitoneal injection
 Method: OECD Test Guideline 474
 Result: positive
 GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests showed mutagenic effects
 Remarks: Based on read across from structural related substance
 Rhodium(III)-chloride hydrate.

Carcinogenicity
Components:
Sulphuric acid:

Species : Rat, male and female
 Application Route : oral (gavage)
 Method : No guideline followed
 Symptoms : Some evidence of a weak local carcinogenic activity
 GLP : no
 Remarks : Classification not possible

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Species : Mouse, male and female
 Application Route : oral (gavage)
 Method : No guideline followed
 Symptoms : Some evidence of a weak local carcinogenic activity
 GLP : no

dirhodium trisulphate:

Remarks : No data available

IARC Group 1: Carcinogenic to humans
 Sulphuric acid 7664-93-9
 (Acid mists, strong inorganic)

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 Known to be human carcinogen
 Sulphuric acid 7664-93-9
 (Strong Inorganic Acid Mists Containing Sulfuric Acid)
 Known to be human carcinogen
 Sulphuric acid 7664-93-9

Reproductive toxicity
Components:
Sulphuric acid:

Effects on fertility : Remarks: data waiving in REACH dossier

Effects on foetal development : Test Type: Developmental toxicity study
 Species: Rabbit
 Strain: NZW
 Application Route: inhalation (aerosol)
 Dose: 0, 5, 20 mg/m³
 Duration of Single Treatment: 12 d
 General Toxicity Maternal: NOAEC: 5.7 mg/m³
 Developmental Toxicity: NOAEC: 19.3 mg/m³
 Method: OECD Test Guideline 414
 GLP: no

Test Type: Developmental toxicity study
 Species: Mouse
 Strain: CF1
 Application Route: inhalation (aerosol)
 Dose: 0, 5, 20 mg/m³
 Duration of Single Treatment: 9 d
 General Toxicity Maternal: NOAEC: 5.7 mg/m³
 Developmental Toxicity: NOAEC: 19.3 mg/m³
 Method: OECD Test Guideline 414
 GLP: no

dirhodium trisulphate:

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Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

STOT - single exposure**Components:****Sulphuric acid:**

Exposure routes : Inhalation, Ingestion, Skin contact

dirhodium trisulphate:

Remarks : No data available

STOT - repeated exposure**Components:****Sulphuric acid:**

Exposure routes : Inhalation

dirhodium trisulphate:

Remarks : No data available

Repeated dose toxicity**Components:****Sulphuric acid:**Species : Rat, female
: 0.3 mg/m³
Application Route : inhalation (aerosol)
Exposure time : 28 d
Number of exposures : 5 d/w
Dose : 0, 0.2, 1.0, 5.0 mg/m³
Method : OECD Test Guideline 412
GLP : yes**dirhodium trisulphate:**

Remarks : No data available

Aspiration toxicity**Components:****Sulphuric acid:**

Not classified due to data which are conclusive although insufficient for classification.

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Further information**Product:**

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Sulphuric acid:**

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 16 mg/l
Exposure time: 96 h
Test Type: static test
GLP: no
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC (*Jordanella floridae* (flagfish)): 0.025 mg/l
Exposure time: 65 days
GLP: no
Remarks: Fresh water

Toxicity to microorganisms : NOEC (activated sludge): 26,000 mg/l
Exposure time: 37 d
Method: No data available
GLP: no
Remarks: Based on data from similar materials

dirhodium trisulphate:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

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M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No data available

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : Remarks: No data available

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability**Components:****Sulphuric acid:**

Biodegradability : Remarks: data waiving in REACH dossier

Bioaccumulative potential**Components:****Sulphuric acid:**

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-octanol/water : Remarks: data waiving in REACH dossier

Mobility in soil

No data available

Other adverse effects**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Harmful to aquatic life with long lasting effects.

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SECTION 13. DISPOSAL CONSIDERATIONS
Disposal methods

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.
- Contaminated packaging : Empty remaining contents.
Dispose of contaminated packaging as if unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION
International Regulations
UNRTDG

- UN number : UN 3264
Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Sulphuric acid, phosphoric acid)
Class : 8
Packing group : II
Labels : 8



- Marine pollutant : no

IATA-DGR

- UN/ID No. : UN 3264
Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s.
(Sulphuric acid, phosphoric acid)
Class : 8
Packing group : II
Labels : Corrosive



- Packing instruction (cargo aircraft) : 855
Maximum quantity : 30.00 L
Packing instruction (passenger aircraft) : 851
Maximum quantity : 1.00 L

IMDG-Code

- UN number : UN 3264
Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

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(Sulphuric acid, phosphoric acid)

Class : 8
 Packing group : II
 Labels : 8



EmS Code : F-A, S-B
 Marine pollutant : no
 IMDG segregationcode : Acids

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations
49 CFR

UN/ID/NA number : UN 3264
 Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s.
 (Sulphuric acid, phosphoric acid)
 Class : 8
 Packing group : II
 Labels : CORROSIVE



ERG Code : 154
 Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION
EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulphuric acid	7664-93-9	1000	3448

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulphuric acid	7664-93-9	1000	3448

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Sulphuric acid	7664-93-9	1000

SARA 311/312 Hazards : Corrosive to metals

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Skin corrosion or irritation
 Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Sulphuric acid	7664-93-9	29 %
orthophosphoric acid	7664-38-2	1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Sulphuric acid	7664-93-9	29 %
orthophosphoric acid	7664-38-2	1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations
Massachusetts Right To Know

Sulphuric acid	7664-93-9
orthophosphoric acid	7664-38-2

Pennsylvania Right To Know

water	7732-18-5
Sulphuric acid	7664-93-9
orthophosphoric acid	7664-38-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Sulphuric acid, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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California List of Hazardous Substances

Sulphuric acid	7664-93-9
orthophosphoric acid	7664-38-2

California Permissible Exposure Limits for Chemical Contaminants

Sulphuric acid	7664-93-9
orthophosphoric acid	7664-38-2

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

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AICS	: Not in compliance with the inventory
DSL	: This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
CH INV	: On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

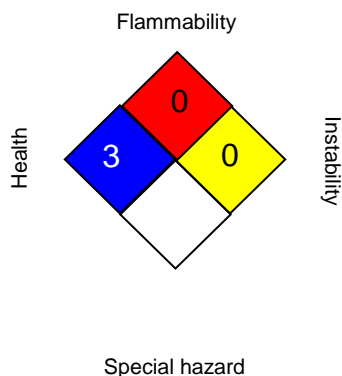
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SECTION 16. OTHER INFORMATION
Further information
NFPA 704:

HMIS® IV:

HEALTH	/	3
FLAMMABILITY		0
PHYSICAL HAZARD		4

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.

Full text of other abbreviations

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

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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

Revision Date : 03/31/2021

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