

**NeXtal Classics II Suite**

Version 2.0

Revision Date 03/31/2020

Print Date 03/31/2020

**SECTION 1. IDENTIFICATION**

Product name : NeXtal Classics II Suite

**Manufacturer or supplier's details**Company : NeXtal  
6201 Trust Dr  
Holland, OH 43528  
USA

Telephone : 419-740-6600

E-mail address : [www.calibrescientific.com](http://www.calibrescientific.com)Emergency telephone : CHEMTREC  
USA & Canada 1-800-424-9300  
Outside USA & Canada (703) 527-3887  
Chemtrec ID# 696910**Recommended use of the chemical and restrictions on use**

Recommended use : Laboratory chemicals

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**Acute toxicity (Oral) : Category 4  
Skin irritation : Category 2  
Serious eye damage : Category 1  
Respiratory sensitization : Category 1  
Skin sensitization : Category 1  
Carcinogenicity : Category 1A  
Reproductive toxicity : Category 1B  
Specific target organ systemic toxicity - single exposure : Category 3 (Respiratory system)  
Specific target organ systemic toxicity - repeated exposure : Category 2  
Acute aquatic toxicity : Category 2  
Chronic aquatic toxicity : Category 2

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### GHS Label element

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H350 May cause cancer.  
 H360 May damage fertility or the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**  
 P201 Obtain special instructions before use.  
 P260 Do not breathe dust/fumes/gas/mist/vapors/spray.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P284 Wear respiratory protection.  
**Response:**  
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
 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 or doctor/ physician.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.

### Other hazards

None known.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Substance name : Semifinished Classics II

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**Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (% w/w)
PPG	25322-69-4	>= 30 - < 50
2-methylpentane-2,4-diol	107-41-5	>= 30 - < 50
triammonium citrate	3458-72-8	>= 30 - < 50
O-(2-Aminopropyl)-O'-(2-methoxyethyl)-polypropylen glykol 500	Not Assigned	>= 20 - < 30
PEG	25322-68-3	>= 20 - < 30
malic acid	6915-15-7	>= 20 - < 30
Sodium polyacrylate	9003-04-7	>= 10 - < 20
succinic acid	110-15-6	>= 10 - < 20
Magnesium chloride, hexahydrate	7791-18-6	>= 1 - < 10
calcium chloride dihydrate	10035-04-8	>= 1 - < 10
lithium sulfate, monohydrate	10102-25-7	>= 1 - < 10
BIS-TRIS	6976-37-0	>= 1 - < 10
Trimethylamine N-oxide	62637-93-8	>= 1 - < 10
citric acid	77-92-9	>= 1 - < 10
potassium bromide	7758-02-3	>= 1 - < 10
zinc acetate dihydrate	5970-45-6	>= 1 - < 10
cobalt(II)chloride	7791-13-1	>= 0.1 - < 1
nickel chloride	7791-20-0	>= 0.1 - < 1
cadmium chloride	10108-64-2	< 0.1

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Call a physician or poison control center immediately.  
If unconscious place in recovery position and seek medical advice.  
Keep respiratory tract clear.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
If symptoms persist, call a physician.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
Protect unharmed eyes.
- If swallowed : If accidentally swallowed obtain immediate medical attention.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause allergy or asthma symptoms or breathing

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difficulties if inhaled.  
May cause respiratory irritation.  
May cause cancer by inhalation.  
May damage fertility or the unborn child.

Notes to physician : No information available.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during fire fighting : Do not allow run-off from firefighting to enter drains or water courses.  
Exposure to decomposition products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
potassium oxide  
Chlorine compounds  
Magnesium oxides  
Hydrogen chloride gas  
Metal oxides
- Specific extinguishing methods : In the event of fire and/or explosion do not breathe fumes.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Avoid breathing dust/fumes/gas/mist/vapors/spray.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.  
sodium hypochlorite

**SECTION 7. HANDLING AND STORAGE**

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- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

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

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
PPG	25322-69-4	TWA	10 mg/m <sup>3</sup>	US WEEL
		TWA (aerosol)	10 mg/m <sup>3</sup>	US WEEL
2-methylpentane-2,4-diol	107-41-5	C	25 ppm	ACGIH
		C	25 ppm 125 mg/m <sup>3</sup>	NIOSH REL
		C	25 ppm 125 mg/m <sup>3</sup>	OSHA P0
PEG	25322-68-3	TWA	10 mg/m <sup>3</sup>	US WEEL
		TWA (aerosol)	10 mg/m <sup>3</sup>	US WEEL
cobalt(II)chloride	7791-13-1	TWA	0.02 mg/m <sup>3</sup> (Cobalt)	ACGIH
		TWA	0.02 mg/m <sup>3</sup> (Cobalt)	ACGIH
nickel chloride	7791-20-0	TWA	1 mg/m <sup>3</sup> (Nickel)	OSHA Z-1
		TWA (Inhalable fraction)	0.1 mg/m <sup>3</sup> (Nickel)	ACGIH
		TWA	0.1 mg/m <sup>3</sup> (Nickel)	OSHA P0
		TWA	0.015 mg/m <sup>3</sup> (Nickel)	NIOSH REL
		TWA	1 mg/m <sup>3</sup>	OSHA Z-1

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			(Nickel)	
		TWA (Inhalable fraction)	0.1 mg/m <sup>3</sup> (Nickel)	ACGIH
		TWA	0.1 mg/m <sup>3</sup> (Nickel)	OSHA P0
		TWA	0.015 mg/m <sup>3</sup> (Nickel)	NIOSH REL
cadmium chloride	10108-64-2	TWA	0.01 mg/m <sup>3</sup> (cadmium)	ACGIH
		TWA (Respirable fraction)	0.002 mg/m <sup>3</sup> (cadmium)	ACGIH
		PEL	0.005 mg/m <sup>3</sup>	OSHA CARC
		TWA	0.01 mg/m <sup>3</sup> (cadmium)	ACGIH
		TWA (Respirable fraction)	0.002 mg/m <sup>3</sup> (cadmium)	ACGIH
		PEL	0.005 mg/m <sup>3</sup> (cadmium)	OSHA CARC

**Hazardous components without workplace control parameters**

Ingredients	CAS-No.
triammonium citrate	3458-72-8
O-(2-Aminopropyl)-O'-(2-methoxyethyl)-polypropylenglykol 500	Not Assigned
malic acid	6915-15-7
Sodium polyacrylate	9003-04-7
succinic acid	110-15-6
Magnesium chloride, hexahydrate	7791-18-6
calcium chloride dihydrate	10035-04-8
lithium sulfate, monohydrate	10102-25-7
BIS-TRIS	6976-37-0
Trimethylamine N-oxide	62637-93-8
citric acid	77-92-9
potassium bromide	7758-02-3
zinc acetate dihydrate	5970-45-6

**Biological occupational exposure limits**

Ingredients	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
	10108-64-2	cadmium (cadmium)	In blood	Not critical	5 µg/l	ACGIH BEI
		cadmium (cadmium)	Urine	Not critical	5 µg/g creatinine	ACGIH BEI

**Personal protective equipment**

Respiratory protection : In the case of vapor formation use a respirator with an approved filter.

Hand protection

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Material	: Protective gloves
Remarks	: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	: Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. Do not wear contact lenses. Ensure that eyewash stations and safety showers are close to the workstation location.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the workplace. acid-resistant protective clothing Footwear protecting against chemicals
Hygiene measures	: Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Keep working clothes separately. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Burning rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available

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Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.
Conditions to avoid	: No data available
Incompatible materials	: No data available
Hazardous decomposition products	: No decomposition if stored and applied as directed.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Harmful if swallowed.

**Product:**



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Acute oral toxicity	: No data available
	Acute toxicity estimate: 1,077 mg/kg Method: Calculation method
Acute inhalation toxicity	: No data available
	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	: No data available
	Acute toxicity estimate: 3,722 mg/kg Method: Calculation method

**Ingredients:****2-methylpentane-2,4-diol:**

Acute oral toxicity	: LD50 Oral (Rat): 3,700 mg/kg
Acute dermal toxicity	: LD50 Dermal (Rabbit): 7,892 mg/kg

**PEG:**

Acute inhalation toxicity	: No data available
Acute dermal toxicity	: No data available

**malic acid:**

Acute oral toxicity	: LD50 Oral (Rat): 1,600 mg/kg
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**Sodium polyacrylate:**

Acute oral toxicity	: LD50 Oral (Rat): > 40,000 mg/kg
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**succinic acid:**

Acute oral toxicity	: LD50 Oral (Rat): 2,260 mg/kg
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**Magnesium chloride, hexahydrate:**

Acute oral toxicity	: LD50 Oral (Rat): 8,100 mg/kg
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**lithium sulfate, monohydrate:**

Acute oral toxicity	: LD50 Oral (Rat): 613 mg/kg
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**Trimethylamine N-oxide:**

Acute oral toxicity	: LD50 Oral (Rat): 8,700 mg/kg
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**citric acid:**

Acute oral toxicity	: LD50 Oral (Rat): 5,400 mg/kg
Acute dermal toxicity	: LD50 Dermal (Rat): > 2,000 mg/kg

**potassium bromide:**

Acute oral toxicity	: LD50 Oral (Rat): 3,070 mg/kg
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**zinc acetate dihydrate:**

Acute oral toxicity	: LD50 Oral (Rat): 794 mg/kg
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**cobalt(II)chloride:**

Acute oral toxicity : LD50 Oral (Rat): 766 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat): &gt; 2,000 mg/kg

**nickel chloride:**

Acute oral toxicity : LD50 Oral (Rat): 105 mg/kg

**cadmium chloride:**

Acute oral toxicity : LD50 Oral (Rat): 88 mg/kg

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks:

May cause skin irritation and/or dermatitis.

**Ingredients:****malic acid:**

Species: Rabbit

Exposure time: 24 h

Result: Skin irritation

Remarks:

slight irritation

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks:

May cause irreversible eye damage.

**Ingredients:****malic acid:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Exposure time: 24 h

**Respiratory or skin sensitization**

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Product:**

Remarks:

Causes sensitization. May cause sensitization by inhalation and skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

May cause cancer by inhalation.

**IARC**

Group 1: Carcinogenic to humans

Nickel chloride

7791-20-0

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Group 2B: Possibly carcinogenic to humans

cobalt(II)chloride 7791-13-1

**OSHA**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

Known to be human carcinogen

Nickel chloride 7791-20-0

**Reproductive toxicity**

May damage fertility or the unborn child.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity****Product:**

Toxicity to fish : No data available

Toxicity to algae : No data available

Toxicity to bacteria : No data available  
 : LC50 (Oncorhynchus mykiss (rainbow trout)): > 10,000 mg/l

**Ingredients:****PPG:**

Toxicity to fish  
 Exposure time: 96 h

**2-methylpentane-2,4-diol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,700 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,200 mg/l  
 Exposure time: 48 h

**PEG:**

Toxicity to fish : (Leuciscus idus (Golden orfe)): > 500 mg/l  
 Exposure time: 96 h  
 Test Type: static test

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**citric acid:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 1,535 mg/l  
Exposure time: 24 h  
Test Type: static test

**potassium bromide:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 30 mg/l  
Exposure time: 96 h

**zinc acetate dihydrate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.55 mg/l  
Exposure time: 96 h

**cobalt(II)chloride:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 0.33 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.1 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 0.5 mg/l  
Exposure time: 96 h

**nickel chloride:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.51 mg/l  
Exposure time: 48 h

**cadmium chloride:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.003 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.016 mg/l  
Exposure time: 48 h  
Test Type: Immobilization

**Persistence and degradability**

No data available

**Bioaccumulative potential****Product:**

Bioaccumulation : No data available

**Ingredients:****O-(2-Aminopropyl)-O'-(2-methoxyethyl)-polypropylenglykol 500:**

Partition coefficient: n-octanol/water : Remarks: No data available

**Mobility in soil**

No data available

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### 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 : An environmental hazard cannot be excluded in the event of  
unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : The product should not be allowed to enter drains, water  
courses or the soil.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and  
national regulations.
- Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### IATA-DGR

- UN/ID No. : UN 3082
- Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(ZINC ACETATE, COBALT(II) CHLORIDE)
- Class : 9
- Packing group : III
- Labels : Miscellaneous

### IMDG-Code

- UN number : UN 3082
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(ZINC ACETATE, COBALT(II) CHLORIDE)
- Class : 9
- Packing group : III
- Labels : 9
- EmS Code : F-A, S-F
- Marine pollutant : yes

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

Not applicable for product as supplied.

### Domestic regulation

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**49 CFR**

UN/ID/NA number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
 N.O.S.  
 (ZINC ACETATE, COBALT(II) CHLORIDE)  
 Class : 9  
 Packing group : III  
 Labels : Class 9 - Miscellaneous Dangerous Goods  
 ERG Code : 171  
 Marine pollutant : yes(ZINC ACETATE, COBALT(II) CHLORIDE)

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**SECTION 15. REGULATORY INFORMATION**
**EPCRA - Emergency Planning and Community Right-to-Know****SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**SARA 311/312 Hazards** : Acute Health Hazard  
 Chronic Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

zinc acetate dihydrate 5970-45-6

cobalt(II)chloride 7791-13-1

nickel chloride 7791-20-0

**US State Regulations**

**California Prop. 65** WARNING! This product contains a chemical known in the State of California to cause cancer.  
 nickel chloride 7791-20-0

**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**
**Full text of other abbreviations**

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx -

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Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.