

# **NeXtal PACT Suite**

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

Product name : NeXtal PACT 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

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** 

Eye irritation : Category 2A

Carcinogenicity : Category 1B

Reproductive toxicity : Category 1B

Specific target organ

systemic toxicity - single

exposure

: Category 3 (Respiratory system)

Acute aquatic toxicity : Category 2

Chronic aquatic toxicity : Category 3

**GHS Label element** 



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Hazard pictograms





Signal Word : Danger

Hazard Statements : H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/

face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

Other hazards

None known.

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

Substance / Mixture : Mixture

Substance name : NeXtal PACT Suite

# **Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (% w/w)
PEG	25322-68-3	>= 20 - < 30
Magnesium chloride, hexahydrate	7791-18-6	>= 1 - < 10
sodium iodide	7681-82-5	>= 1 - < 10
calcium chloride dihydrate	10035-04-8	>= 1 - < 10
4-Morpholineethanesulfonic acid	145224-94-8	>= 1 - < 10
potassium thiocyanate	333-20-0	>= 1 - < 10
sodium nitrate	7631-99-4	>= 1 - < 10
ammonium chloride	12125-02-9	>= 1 - < 10
sodium fluoride	7681-49-4	>= 0.1 - < 1
Sodium cacodylate trihydrate	6131-99-3	>= 0.1 - < 1
imidazole	288-32-4	>= 0.1 - < 1
boric acid	10043-35-3	>= 0.1 - < 1
zinc chloride	7646-85-7	>= 0.1 -< 1

# **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.



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If inhaled : Call a physician or poison control center immediately.

If unconscious, place in recovery position and seek

medical advice.

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 : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eyes.

Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

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

: Causes serious eye irritation. May cause respiratory irritation.

May cause cancer.

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

ourses.

Exposure to decomposition products may be a hazard to

health.

Hazardous combustion

products

Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

Sulfur oxides

Carbon oxides

Nitrogen oxides (NOx) potassium oxide Chlorine compounds Magnesium oxides Iodine compounds Hydrogen chloride gas Bromine compounds

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.



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

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

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.

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

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.

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
PEG	25322-68-3	TWA	10 mg/m3	US WEEL
		TWA (aerosol)	10 mg/m3	US WEEL
sodium iodide	7681-82-5	TWA (Inhalable fraction and vapor)	0.01 mg/m3	ACGIH
		TWA (Inhalable fraction and vapor)	0.01 ppm (iodine)	ACGIH



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ammonium chloride	12125-02-9	TWA	10 mg/m3	ACGIH
		STEL	20 mg/m3	ACGIH
		TWA (Fumes)	10 mg/m3	NIOSH REL
		ST (Fumes)	20 mg/m3	NIOSH REL
		TWA	10 mg/m3	OSHA P0
		STEL	20 mg/m3	OSHA P0
		TWA (Fumes)	10 mg/m3	ACGIH
		STEL (Fumes)	20 mg/m3	ACGIH
		TWA (Fumes)	10 mg/m3	NIOSH REL
		ST (Fumes)	20 mg/m3	NIOSH REL
sodium fluoride	7681-49-4	TWA	2.5 mg/m3 (Fluorine)	NIOSH REL
		TWA	2.5 mg/m3 (Fluorine)	OSHA Z-1
		TWA	2.5 mg/m3 (Fluorine)	ACGIH
		TWA	2.5 mg/m3 (Fluorine)	OSHA P0
		TWA	2.5 mg/m3 (Fluorine)	NIOSH REL
		TWA	2.5 mg/m3 (Fluorine)	OSHA Z-1
		TWA	2.5 mg/m3 (Fluorine)	ACGIH
		TWA	2.5 mg/m3 (Fluorine)	OSHA P0
boric acid	10043-35-3	TWA (Inhalable fraction)	2 mg/m3	ACGIH
		TWA (Inhalable fraction)	2 mg/m3	ACGIH
		STEL (Inhalable fraction)	6 mg/m3	ACGIH
		STEL (Inhalable fraction)	6 mg/m3	ACGIH
		TWA (Inhalable fraction)	2 mg/m3 (Borate)	ACGIH
		STEL (Inhalable fraction)	6 mg/m3 (Borate)	ACGIH
zinc chloride	7646-85-7	TWA (Fumes)	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	ACGIH
		STEL	2 mg/m3	ACGIH
		TWA (Fumes)	1 mg/m3	NIOSH REL
		ST (Fumes)	2 mg/m3	NIOSH REL



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TWA	1 mg/m3	OSHA P0
STEL	2 mg/m3	OSHA P0
TWA (Fumes)	1 mg/m3	ACGIH
STEL (Fumes)	2 mg/m3	ACGIH
TWA (Fumes)	1 mg/m3	NIOSH REL
ST (Fumes)	2 mg/m3	NIOSH REL
TWA (Fumes)	1 mg/m3	OSHA P0
STEL (Fumes)	2 mg/m3	OSHA P0

# Hazardous components without workplace control parameters

Ingredients	CAS-No.
Magnesium chloride,	7791-18-6
hexahydrate	
calcium chloride dihydrate	10035-04-8
4-Morpholineethanesulfonic	145224-94-8
acid	
potassium thiocyanate	333-20-0
sodium nitrate	7631-99-4
Sodium cacodylate trihydrate	6131-99-3
imidazole	288-32-4

## **Biological occupational exposure limits**

Ingredients	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
	7681-49-4	Fluoride (Fluorine)	Urine	Prior to shift (16 hours after exposure ceases)	2 mg/l	ACGIH BEI
		Fluoride (Fluorine)	Urine	End of shift (As soon as possible after exposure ceases)	3 mg/l	ACGIH BEI

## Personal protective equipment

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

approved filter.

Hand protection

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



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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.

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

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : No data available



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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**

Not classified based on available information.

**Product:** 

Acute oral toxicity : No data available

Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : No data available

Acute toxicity estimate: > 40 mg/l



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

Acute dermal toxicity : No data available

Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

**Ingredients:** 

PEG:

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Magnesium chloride, hexahydrate:

Acute oral toxicity : LD50 Oral (Rat): 8,100 mg/kg

sodium iodide:

Acute oral toxicity : LD50 Oral (Rat): 4,340 mg/kg

potassium thiocyanate:

Acute oral toxicity : LD50 Oral (Rat): 854 mg/kg

sodium nitrate:

Acute oral toxicity : LD50 Oral (Rat): 1,267 mg/kg

LD50 Oral (Rabbit): 2,680 mg/kg

ammonium chloride:

Acute oral toxicity : LD50 Oral (Rat): 1,650 mg/kg

sodium fluoride:

Acute oral toxicity : LD50 Oral (Rat, female): 148.5 mg/kg

LD50 Oral (Mouse): 44 mg/kg

LD50 Oral (Rabbit): 200 mg/kg

LD50 Oral (Rat, male): 223 mg/kg

imidazole:

Acute oral toxicity : LD50 Oral (Rat): 970 mg/kg

boric acid:

Acute oral toxicity : LD50 Oral (Rat): 2,660 mg/kg

zinc chloride:

Acute oral toxicity : LD50 Oral (Rat): 350 mg/kg

Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Remarks:



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May cause skin irritation and/or dermatitis.

#### **Ingredients:**

#### zinc chloride:

Assessment: Causes burns. Result: Causes burns.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### **Product:**

Remarks:

May cause irreversible eye damage.

#### **Ingredients:**

#### zinc chloride:

Result: Risk of serious damage to eyes. Assessment: Risk of serious damage to eyes.

## Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

## Germ cell mutagenicity

Not classified based on available information.

# **Ingredients:**

#### zinc chloride:

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

Result: positive

## Carcinogenicity

May cause cancer.

IARC Group 2A: Probably carcinogenic to humans

Sodium nitrate 7631-99-4

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 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 fertility or the unborn child.

# STOT-single exposure

May cause respiratory irritation.

## **Ingredients:**

#### zinc chloride:

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



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## STOT-repeated exposure

Not classified based on available information.

## **Ingredients:**

#### zinc chloride:

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

# **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

No data available

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

**Product:** 

Toxicity to fish : No data available

Toxicity to algae : No data available

Toxicity to bacteria : No data available

**Ingredients:** 

PEG:

: (Leuciscus idus (Golden orfe)): > 500 mg/l Toxicity to fish

Exposure time: 96 h Test Type: static test

sodium iodide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 860 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.17 mg/l

Exposure time: 48 h

potassium thiocyanate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 11 mg/l

Exposure time: 48 h

sodium nitrate:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 6,650 mg/l

Exposure time: 96 h Test Type: static test

ammonium chloride:

LC50 (Cyprinus carpio (Carp)): 209 mg/l Toxicity to fish

Exposure time: 96 h



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Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 161 mg/l

Exposure time: 48 h

sodium fluoride:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 200 mg/l

Exposure time: 96 h

Sodium cacodylate trihydrate:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 53.5 mg/l

Exposure time: 48 h

imidazole:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 283.6 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 341.5 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus quadricauda (Green algae)): 133 mg/l

Exposure time: 72 h Test Type: static test

Toxicity to bacteria : 45 mg/l

Exposure time: 0.5 h

boric acid:

Toxicity to fish : LC0 (Lepomis macrochirus (Bluegill sunfish)): 1,021 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 133 mg/l

Exposure time: 48 h

zinc chloride:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 38 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.33 mg/l

Exposure time: 48 h

Toxicity to algae : EC0 (Pseudokirchneriella subcapitata (microalgae)): 0.1 mg/l

Exposure time: 96 h

Toxicity to bacteria : (Bacteria): 45 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

**Product:** 

Bioaccumulation : No data available



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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

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life.

Harmful 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**

**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 Annex II of MARPOL 73/78 and the IBC Code

No data available

**Domestic regulation** 

**49 CFR** 

Not regulated as a dangerous good



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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:

sodium nitrate 7631-99-4

**US State Regulations** 

California Prop. 65 This product does not contain any chemicals known to the

State of California to cause cancer, birth, or any other

reproductive defects.

**TSCA list** 

No substances are subject to a Significant New Use Rule.

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

#### **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 -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



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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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