

# **NeXtal JCSG Core II Suite**

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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

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.



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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.

Vapors may form explosive mixture with air.

Keep away from oxidizing agents, and acidic or alkaline

products.

Conditions to avoid : Heat, flames and sparks.

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:** 

Acute oral toxicity : No data available

Acute toxicity estimate: 843.41 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: > 5,000 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

ethane-1,2-diol:

Acute oral toxicity : LD50 Oral (Rat): 4,700 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 10,626 mg/kg



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1,4-dioxane:

Acute oral toxicity : LD50 Oral (Rat): 4,200 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 7,858 mg/kg

glycerol:

Acute oral toxicity : LD50 Oral (Rat): 12,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 10,000 mg/kg

ethanol:

Acute oral toxicity : LD50 Oral (Rat): 10,470 mg/kg

Acute inhalation toxicity : LC50 (Rat): 20000 ppm

Exposure time: 10 h

hexane-1,6-diol:

Acute oral toxicity : LD50 Oral (Rat): > 3,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,500 mg/kg

lithium sulfate, monohydrate:

Acute oral toxicity : LD50 Oral (Rat): 613 mg/kg

2-propanol:

Acute oral toxicity : LD50 Oral (Rat): 5,045 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 12,800 mg/kg

zinc acetate dihydrate:

Acute oral toxicity : LD50 Oral (Rat): 794 mg/kg

lithium chloride:

Acute oral toxicity : LD50 Oral (Rat): 526 mg/kg

Magnesium chloride, hexahydrate:

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

calcium acetate hydrate:

Acute oral toxicity : LD50 Oral (Rat): 4,280 mg/kg

citric acid:

Acute oral toxicity : LD50 Oral (Rat): 5,400 mg/kg

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

sodium nitrate:

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

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

imidazole:

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

sodium fluoride:



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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

cobalt(II)chloride:

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

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

nickel chloride:

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

#### Skin corrosion/irritation

Causes skin irritation.

#### **Product:**

Remarks:

May cause skin irritation and/or dermatitis.

#### **Ingredients:**

## glycerol:

Species: Rabbit Exposure time: 24 h Result: Mild skin irritation

# **2-propanol:** Species: Rabbit

Result: Mild skin irritation

## Serious eye damage/eye irritation

Causes serious eye irritation.

#### **Product:**

Remarks:

May cause irreversible eye damage.

## Ingredients:

# glycerol:

Species: Rabbit

Result: Mild eye irritation Exposure time: 24 h

#### ethanol:

Result: Eye irritation

## 2-propanol:

Species: Rabbit Result: Eye irritation Exposure time: 24 h



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#### 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.

IARC Group 2A: Probably carcinogenic to humans

Sodium nitrate 7631-99-4

Group 2B: Possibly carcinogenic to humans

1,4-dioxane 123-91-1

cobalt(II)chloride 7791-13-1

Group 1: Carcinogenic to humans

nickel chloride 7791-20-0

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

Reasonably anticipated to be a human carcinogen

1,4-dioxane 123-91-1

## Reproductive toxicity

May damage fertility or the unborn child.

#### STOT-single exposure

May cause respiratory irritation.

## **Ingredients:**

#### 2-propanol:

Assessment: May cause drowsiness or dizziness.

## STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

## **Aspiration toxicity**

Not classified based on available information.



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#### **Further information**

## **Product:**

Remarks:

Solvents may degrease the skin.

#### **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 (Pimephales promelas (fathead minnow)): 10,700 mg/l

Ingredients:

2-methylpentane-2,4-diol:

Toxicity to fish

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

ethane-1,2-diol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 18,500 mg/l

Exposure time: 96 h

NOEC (Pimephales promelas (fathead minnow)): 39,140 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 41,000 mg/l

Exposure time: 48 h

1,4-dioxane:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 985 mg/l

Exposure time: 96 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l

Exposure time: 72 h

glycerol:

Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l

Exposure time: 48 h

hexane-1,6-diol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 4,640 mg/l

Exposure time: 96 h



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Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

Exposure time: 48 h

Test Type: Immobilization

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)):

5,940 mg/l

Exposure time: 72 h

Test Type: Growth inhibition

Toxicity to bacteria : IC50 (Pseudomonas putida): > 10,000 mg/l

Exposure time: 17 h

Test Type: Growth inhibition

2-propanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l

Exposure time: 96 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): 2,000 mg/l Exposure time: 72 h

zinc acetate dihydrate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.55 mg/l

Exposure time: 96 h

lithium chloride:

Toxicity to fish : LC50: 17 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

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

sodium nitrate:

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

Exposure time: 96 h Test Type: static test

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



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Test Type: static test

Toxicity to bacteria : 45 mg/l

Exposure time: 0.5 h

sodium fluoride:

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

# Persistence and degradability

No data available

## **Bioaccumulative potential**

**Product:** 

Bioaccumulation : No data available

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 with long lasting effects.

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

**Disposal methods** 

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



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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 1993

Proper shipping name : Flammable liquid, n.o.s.

(1,4-dioxane, ethanol)

Class : 3 Packing group : II

Labels : Flammable Liquids

**IMDG-Code** 

UN number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(1,4-dioxane, ethanol)

Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-E
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**

**49 CFR** 

UN/ID/NA number : UN 1993

Proper shipping name : FLAMMABLE LIQUIDS, N.O.S.

(1,4-dioxane, ethanol)

Class : 3 Packing group : II

Labels : Class 3 - Flammable Liquid

ERG Code : 128

Marine pollutant : yes(ZINC ACETATE, Sodium cacodylate)

#### **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.



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SARA 311/312 Hazards : Fire Hazard

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:

ethane-1,2-diol 107-21-1

1,4-dioxane 123-91-1

zinc acetate dihydrate 5970-45-6

sodium nitrate 7631-99-4

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.

 1,4-dioxane
 123-91-1

 ethanol
 64-17-5

 nickel chloride
 7791-20-0

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive

harm.

ethane-1,2-diol 107-21-1 ethanol 64-17-5

#### **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; 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



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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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