

NeXtal ComPAS Suite

Version 2.0

Revision Date 03/31/2020

Print Date 03/31/2020

SECTION 1. IDENTIFICATION

Product name : NeXtal ComPAS Suite

Manufacturer or supplier's detailsCompany : NeXtal
6201 Trust Dr
Holland, OH 43528
USA

Telephone : 419-740-6600

E-mail address : www.calibrescientific.comEmergency 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**

Flammable liquids : Category 2

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 3

Acute toxicity (Dermal) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Carcinogenicity : Category 1A

Reproductive toxicity : Category 1B

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Specific target organ
systemic toxicity - single
exposure : Category 1

Specific target organ
systemic toxicity - single
exposure : Category 3 (Respiratory system, Central nervous system)

Specific target organ
systemic toxicity - repeated
exposure : Category 2

GHS Label element

Hazard pictograms



Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.
H302 + H312 Harmful if swallowed or in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
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 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed

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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Substance name : Semifinished ComPAS

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (% w/w)
2-methylpentane-2,4-diol	107-41-5	≥ 70 - < 90
ethanol	64-17-5	≥ 50 - < 70
2-methylpropan-2-ol	75-65-0	≥ 30 - < 50
Magnesium chloride, hexahydrate	7791-18-6	≥ 30 - < 50
2-propanol	67-63-0	≥ 30 - < 50
PEG	25322-68-3	≥ 20 - < 30
glycerol	56-81-5	≥ 20 - < 30
methanol	67-56-1	≥ 20 - < 30
lithium sulfate, monohydrate	10102-25-7	≥ 10 - < 20
ammonium formate	540-69-2	≥ 10 - < 20
calcium acetate hydrate	114460-21-8	≥ 1 - < 10
calcium chloride dihydrate	10035-04-8	≥ 1 - < 10
4-Morpholineethanesulfonic acid	145224-94-8	≥ 1 - < 10
2-(Cyclohexylamino)ethanesulfonic acid	103-47-9	≥ 1 - < 10
imidazole	288-32-4	≥ 0.1 - < 1
nickel chloride	7791-20-0	≥ 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.
- 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 : 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.

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Most important symptoms and effects, both acute and delayed	Rinse mouth with water. Never give anything by mouth to an unconscious person.
	: Harmful if swallowed or in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure.
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 fire fighting 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 (NOx) potassium oxide Chlorine compounds Magnesium oxides Sulfur oxides Metal oxides Hydrogen chloride gas
Specific extinguishing methods	: In the event of fire and/or explosion do not breathe fumes. Use a water spray to cool fully closed containers.
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	: Use personal protective equipment. Ensure adequate ventilation.
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emergency procedures	Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust/fumes/gas/mist/vapors/spray. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
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	: Contain spillage and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
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. Open drum carefully as content may be under pressure. 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.
Materials to avoid	: Do not store together with oxidizing and self-igniting products.

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

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-methylpentane-2,4-diol	107-41-5	C	25 ppm	ACGIH
		C	25 ppm 125 mg/m3	NIOSH REL
		C	25 ppm	OSHA P0

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			125 mg/m3	
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
		STEL	1,000 ppm	ACGIH
2-methylpropan-2-ol	75-65-0	TWA	100 ppm	ACGIH
		TWA	100 ppm 300 mg/m3	NIOSH REL
		ST	150 ppm 450 mg/m3	NIOSH REL
		TWA	100 ppm 300 mg/m3	OSHA Z-1
		TWA	100 ppm 300 mg/m3	OSHA P0
		STEL	150 ppm 450 mg/m3	OSHA P0
2-propanol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0
PEG	25322-68-3	TWA	10 mg/m3	US WEEL
		TWA (aerosol)	10 mg/m3	US WEEL
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Total)	10 mg/m3	OSHA P0
		TWA (Respirable fraction)	5 mg/m3	OSHA P0
		TWA	10 mg/m3	ACGIH
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm	NIOSH REL

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			325 mg/m3	
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0
nickel chloride	7791-20-0	TWA	1 mg/m3 (Nickel)	OSHA Z-1
		TWA (Inhalable fraction)	0.1 mg/m3 (Nickel)	ACGIH
		TWA	0.1 mg/m3 (Nickel)	OSHA P0
		TWA	0.015 mg/m3 (Nickel)	NIOSH REL
		TWA	1 mg/m3 (Nickel)	OSHA Z-1
		TWA (Inhalable fraction)	0.1 mg/m3 (Nickel)	ACGIH
		TWA	0.1 mg/m3 (Nickel)	OSHA P0
		TWA	0.015 mg/m3 (Nickel)	NIOSH REL

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Magnesium chloride, hexahydrate	7791-18-6
lithium sulfate, monohydrate	10102-25-7
ammonium formate	540-69-2
calcium acetate hydrate	114460-21-8
calcium chloride dihydrate	10035-04-8
4-Morpholineethanesulfonic acid	145224-94-8
2-(Cyclohexylamino)ethanesulfonic acid	103-47-9
imidazole	288-32-4

Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
	67-63-0	Acetone	Urine	End of shift at end of workweek	40 mg/l	ACGIH BEI
	67-56-1	Methanol	Urine	End of shift (As soon as possible After exposure ceases)	15 mg/l	ACGIH BEI

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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 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
Workers should wear antistatic footwear.
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Keep away from food and drink.
Wash hands before breaks and immediately after handling the product.
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

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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.
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

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Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if swallowed or in contact with skin.

Toxic if inhaled.

Product:

Acute oral toxicity : No data available

Acute toxicity estimate: 353.74 mg/kg
Method: Calculation method

Acute inhalation toxicity : No data available

Acute toxicity estimate: 9.65 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : No data available

Acute toxicity estimate: 1,140 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

ethanol:

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

Acute inhalation toxicity : LC50 (Rat): 20000 ppm
Exposure time: 10 h**2-methylpropan-2-ol:**

Acute oral toxicity : LD50 Oral (Rat): 2,743 mg/kg

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

Magnesium chloride, hexahydrate:

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

2-propanol:

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

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

PEG:

Acute inhalation toxicity : No data available

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Acute dermal toxicity : No data available

glycerol:

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

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

methanol:

Acute oral toxicity : LD50 Oral (Rat): 1,187 mg/kg

Acute inhalation toxicity : LC50 (Rat): 128.2 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): 17,100 mg/kg

lithium sulfate, monohydrate:

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

ammonium formate:

Acute oral toxicity : LD50 Oral (Mouse): 2,250 mg/kg

calcium acetate hydrate:

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

imidazole:

Acute oral toxicity : LD50 Oral (Rat): 970 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:**2-propanol:**

Species: Rabbit

Result: Mild skin irritation

glycerol:

Species: Rabbit

Exposure time: 24 h

Result: Mild skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks:

May cause irreversible eye damage.

Ingredients:

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ethanol:

Result: Eye irritation

2-propanol:

Species: Rabbit

Result: Eye irritation

Exposure time: 24 h

glycerol:

Species: Rabbit

Result: Mild eye irritation

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.

IARC

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

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs.

Ingredients:**2-propanol:**

Assessment: May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks:

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

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 : EC50 (Daphnia magna (Water flea)): 3,200 mg/l
aquatic invertebrates : Exposure time: 48 h**2-methylpropan-2-ol:**Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 6,140 mg/l
Exposure time: 96 hToxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 933 mg/l
aquatic invertebrates : Exposure time: 48 h**2-propanol:**Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l
Exposure time: 96 hToxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus
subspicatus)): 2,000 mg/l
Exposure time: 72 h**PEG:**Toxicity to fish : (Leuciscus idus (Golden orfe)): > 500 mg/l
Exposure time: 96 h
Test Type: static test**glycerol:**Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l
Exposure time: 48 h**methanol:**

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 341.5 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 133 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
- 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
- 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**Ingredients:****methanol:**

- Biodegradability : aerobic
Result: rapidly biodegradable
Biodegradation: 72 %
Exposure time: 5 Tage

Bioaccumulative potential**Product:**

- Bioaccumulation : No data available

Ingredients:**methanol:**

- Partition coefficient: n-octanol/water : log Pow: -0.77

Mobility in soil

No data available

Other adverse effects**Product:**

- Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

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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 : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : 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 1992

Proper shipping name : Flammable liquid, toxic, n.o.s.
(ethanol, methanol)

Class : 3

Subsidiary risk : 6.1

Packing group : II

Labels : Flammable Liquids, Toxic

IMDG-Code

UN number : UN 1992

Proper shipping name : FLAMMABLE LIQUID, TOXIC, N.O.S.
(ethanol, methanol)

Class : 3

Subsidiary risk : 6.1

Packing group : II

Labels : 3 (6.1)

EmS Code : F-E, S-D

Marine pollutant : no

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 1992

Proper shipping name : FLAMMABLE LIQUIDS, TOXIC, N.O.S.
(ethanol, methanol)

Class : 3

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Subsidiary risk	: 6.1
Packing group	: II
Labels	: Class 3 - Flammable Liquid, Class 6 - Toxic Substance (Division 6.1)
ERG Code	: 131
Marine pollutant	: no

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	: 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: 2-methylpropan-2-ol 75-65-0 methanol 67-56-1 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.

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.

ethanol	64-17-5
methanol	67-56-1

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**

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(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 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.