

NeXtal ProComplex Suite

Version 2.0

Revision Date 04/02/2020

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SECTION 1. IDENTIFICATION

Product name : NeXtal ProComplex 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
Skin irritation : Category 2
Serious eye damage : Category 1
Carcinogenicity : Category 1A
Reproductive toxicity : Category 1B
Specific target organ systemic toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)
Acute aquatic toxicity : Category 3
Chronic aquatic toxicity : Category 3

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GHS Label element

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H225 Highly flammable liquid and vapor.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H350 May cause cancer.
 H360 May damage fertility or the unborn child.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**
 P201 Obtain special instructions before use.
 P210 Keep away from heat/sparks/open flames/hot surfaces.
 No smoking.
 P280 Wear protective gloves/protective clothing/eye protection/
 face protection.
Response:
 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Substance name : NeXtal ProComplex Suite

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (% w/w)
2-methylpentane-2,4-diol	107-41-5	>= 30 - < 50
PEG	25322-68-3	>= 20 - < 30
2-propanol	67-63-0	>= 20 - < 30
lithium sulfate, monohydrate	10102-25-7	>= 10 - < 20
ethanol	64-17-5	>= 10 - < 20
propan-1-ol	71-23-8	>= 1 - < 10
potassium iodide	7681-11-0	>= 1 - < 10
4-Morpholineethanesulfonic acid	145224-94-8	>= 1 - < 10
Sodium cacodylate trihydrate	6131-99-3	>= 1 - < 10

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3-Morpholinopropane-1-sulfonic acid	1132-61-2	>= 1 - < 10
Magnesium chloride, hexahydrate	7791-18-6	>= 1 - < 10
calcium acetate hydrate	114460-21-8	>= 1 - < 10
imidazole	288-32-4	>= 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.
- 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.
Causes serious eye damage.
May cause respiratory irritation.
May cause drowsiness or dizziness.
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 courses.
Exposure to decomposition products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
Sulfur oxides
Magnesium oxides

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Nitrogen oxides (NO_x)
 potassium oxide
 Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
 Metal oxides
 Chlorine compounds
 Iodine compounds
 Arsenic compounds

- 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 emergency procedures : Use personal protective equipment.
 Ensure adequate ventilation.
 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).
 sodium hypochlorite

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.

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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/m ³	NIOSH REL
		C	25 ppm 125 mg/m ³	OSHA P0
PEG	25322-68-3	TWA	10 mg/m ³	US WEEL
		TWA (aerosol)	10 mg/m ³	US WEEL
2-propanol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1
		TWA	400 ppm 980 mg/m ³	OSHA P0
ethanol	64-17-5	STEL	500 ppm 1,225 mg/m ³	OSHA P0
		TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m ³	OSHA P0
propan-1-ol	71-23-8	STEL	1,000 ppm	ACGIH
		TWA	100 ppm	ACGIH
		TWA	200 ppm 500 mg/m ³	NIOSH REL
		ST	250 ppm 625 mg/m ³	NIOSH REL
		TWA	200 ppm 500 mg/m ³	OSHA Z-1
		STEL	250 ppm 625 mg/m ³	OSHA P0
potassium iodide	7681-11-0	TWA	200 ppm 500 mg/m ³	OSHA P0
		TWA (Inhalable fraction and	0.01 mg/m ³	ACGIH

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		vapor)		
		TWA (Inhalable fraction and vapor)	0.01 mg/m ³	ACGIH
		TWA (Inhalable fraction and vapor)	0.01 ppm (iodine)	ACGIH

Hazardous components without workplace control parameters

Ingredients	CAS-No.
lithium sulfate, monohydrate	10102-25-7
4-Morpholineethanesulfonic acid	145224-94-8
Sodium cacodylate trihydrate	6131-99-3
3-Morpholinopropane-1-sulfonic acid	1132-61-2
Magnesium chloride, hexahydrate	7791-18-6
calcium acetate hydrate	114460-21-8
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

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

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concentration of the dangerous substance at the workplace.
 acid-resistant protective clothing
 Footwear protecting against chemicals
 Workers should wear antistatic footwear.

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

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

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

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if swallowed.

Product:

Acute oral toxicity	: Acute toxicity estimate: 1,228 mg/kg Method: Calculation method
Acute inhalation toxicity	: 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

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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

2-propanol:

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

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

lithium sulfate, monohydrate:

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

ethanol:

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

Acute inhalation toxicity : LC50 (Rat): 20000 ppm
Exposure time: 10 h**propan-1-ol:**

Acute oral toxicity : LD50 Oral (Rat): 8,038 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 4,000 mg/kg

potassium iodide:

Acute oral toxicity : LD50 Oral (Mouse): 1,000 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

3-Morpholinopropane-1-sulfonic acid:

Acute oral toxicity : LD50 Oral (Rat): 2,000 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

imidazole:

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

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks:

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May irritate skin.

Ingredients:**2-propanol:**

Species: Rabbit

Result: Mild skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks:

May cause irreversible eye damage.

Ingredients:**2-propanol:**

Species: Rabbit

Result: Eye irritation

Exposure time: 24 h

ethanol:

Result: Eye irritation

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.

Carcinogenicity

May cause cancer.

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

May cause drowsiness or dizziness.

Ingredients:**2-propanol:**

Assessment: May cause drowsiness or dizziness.

3-Morpholinopropane-1-sulfonic acid:

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Routes of exposure: Inhalation
Assessment: May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

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

Ingredients:

2-methylpentane-2,4-diol: : LC50 (Pimephales promelas (fathead minnow)): 10,700 mg/l
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

PEG:

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

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

propan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3,642 mg/l
aquatic invertebrates Exposure time: 48 h

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potassium iodide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,190 mg/l
Exposure time: 96 h

Sodium cacodylate trihydrate:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 53.5 mg/l
aquatic invertebrates Exposure time: 48 h

3-Morpholinopropane-1-sulfonic acid:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 100 mg/l
aquatic invertebrates 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 : EC50 (Daphnia magna (Water flea)): 341.5 mg/l
aquatic invertebrates 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

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 : An environmental hazard cannot be excluded in the event of
information unprofessional handling or disposal.
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.
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.
(ISOPROPANOL, ethanol)
Class : 3
Packing group : II
Labels : Flammable Liquids

IMDG-Code

- UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(ISOPROPANOL, ethanol)
Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-E
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 1993
Proper shipping name : FLAMMABLE LIQUIDS, N.O.S.
(ISOPROPANOL, ethanol)
Class : 3
Packing group : II
Labels : Class 3 - Flammable Liquid
ERG Code : 128
Marine pollutant : no

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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 : 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 : 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.

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
	WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.
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; EC_x - Concentration associated with x% response; EL_x - Loading rate associated with x% response; EmS - Emergency Schedule; ErC_x - 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

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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.