
SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name:

ARCTIC 3x3% ATC FOAM CONCENTRATE

Synonyms:

ARCTIC 3x3% ATC; ARCTIC 3x3%; ARCTIC 3x3; AMEREX 3x3% ATC Foam Concentrate; AMEREX 3x3 ATC; AMEREX 3x3 , Amerex 21549

Product Description:

Mixture.

Product Use:

Fire Suppression Agent, Liquid Concentrate.

Restrictions on Use:

None known.

Details of the supplier of the safety data sheet:

The Solberg Company
1520 Brookfield Avenue
Green Bay, Wisconsin 54313 USA
Phone: +1 920 593 9445
Emergency Phone: +1 920 593 9445
E-mail: sds@solbergfoam.com

SECTION 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200:

Serious Eye Damage/Eye Irritation - Category 2A.

GHS Label Elements:

Symbol(s)



Signal Word

Warning.

Hazard Statement(s)

Causes serious eye irritation.

Precautionary Statement(s)

Prevention

Wear eye protection/face protection.
Wash thoroughly after handling.

Response



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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage

None needed according to classification criteria.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Component Name | Percent |
|------------|-----------------------------------|---------|
| 112-34-5 | Diethylene glycol monobutyl ether | 5-15 |
| 61789-40-0 | Cocamidopropyl betaine | 1-10 |
| 107-21-1 | Ethylene glycol | 1-5 |

The chemical identity and/or percentage of composition is being withheld as a trade secret.

SECTION 4 - FIRST AID MEASURES

Description of Necessary Measures:

No special measures are necessary.

Inhalation:

If adverse effects occur, remove to uncontaminated area. Call a POISON CENTER or doctor if you feel unwell.

Skin:

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eyes:

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.

Ingestion:

If swallowed, get medical attention. Do NOT induce vomiting.

Most Important Symptoms/Effects:

Acute

Causes serious eye irritation.

Delayed

No information on significant adverse effects.

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media:



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Suitable Extinguishing Media

Not applicable as this is a fire suppression agent.

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Negligible fire hazard.

Hazardous Combustion Products

Under certain extreme conditions there may be release of toxic and/or corrosive gases: oxides of carbon, oxides of nitrogen, oxides of sulfur, hydrogen fluoride.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water. Dike for later disposal. Avoid inhalation of material or combustion by-products.

Special Protective Equipment and Precautions for Firefighters

Wear protective clothing and equipment suitable for the surrounding fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate personal protective equipment recommended in Section 8 of the MSDS.

Methods and Materials for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so. Collect spilled material in appropriate container for disposal.

Environmental Precautions:

Prevent entry into waterways, sewers, basements, or confined areas. Dispose of waste in accordance with environmental legislation.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling:

Wear protective eye/face protection. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities:

None needed according to classification criteria.

Keep only in original packaging or containers approved by the manufacturer. Do not mix with other extinguishing agent unless otherwise approved by the manufacturer.

Incompatible Materials:

Electrically energized equipment. Strong oxidizer, water-reactive materials.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:

| | |
|--|-----------------|
| <u>Diethylene glycol monobutyl ether</u> | <u>112-34-5</u> |
|--|-----------------|



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| | |
|----------------------------------|--|
| ACGIH: | 10 ppm TWA inhalable fraction and vapor |
| Europe: | 10 ppm TWA; 67.5 mg/m ³ TWA |
| | 15 ppm STEL; 101.2 mg/m ³ STEL |
| <u>Ethyl alcohol</u> | <u>64-17-5</u> |
| | |
| ACGIH: | 1000 ppm STEL |
| NIOSH: | 1000 ppm TWA; 1900 mg/m ³ TWA |
| | 3300 ppm IDLH (10% LEL) |
| OSHA (US): | 1000 ppm TWA; 1900 mg/m ³ TWA |
| Mexico: | 1000 ppm TWA LMPE-PPT; 1900 mg/m ³ TWA LMPE-PPT |
| <u>Ethylene glycol</u> | <u>107-21-1</u> |
| ACGIH: | 100 mg/m ³ Ceiling aerosol only |
| Europe: | 20 ppm TWA; 52 mg/m ³ TWA |
| | Possibility of significant uptake through the skin |
| | 40 ppm STEL; 104 mg/m ³ STEL |
| Mexico: | 100 mg/m ³ Ceiling aerosol |
| <u>Hexylene glycol</u> | <u>107-41-5</u> |
| ACGIH: | 25 ppm Ceiling |
| NIOSH: | 25 ppm Ceiling; 125 mg/m ³ Ceiling |
| Mexico: | 25 ppm Ceiling; 125 mg/m ³ Ceiling |
| <u>tert-Butyl alcohol</u> | <u>75-65-0</u> |
| ACGIH: | 100 ppm TWA |
| NIOSH: | 100 ppm TWA; 300 mg/m ³ TWA |
| | 150 ppm STEL; 450 mg/m ³ STEL |
| | 1600 ppm IDLH |
| OSHA (US): | 100 ppm TWA; 300 mg/m ³ TWA |
| Mexico: | 100 ppm TWA LMPE-PPT; 300 mg/m ³ TWA LMPE-PPT |
| | 150 ppm STEL [LMPE-CT]; 450 mg/m ³ STEL [LMPE-CT] |
| <u>Triethanolamine</u> | <u>102-71-6</u> |
| ACGIH: | 5 mg/m ³ TWA |



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EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures

There are no biological limit values for any of this product's components.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls

Ensure compliance with applicable exposure limits. If necessary, use appropriate local exhaust ventilation to keep exposures below the regulated limits.

Individual Protection Measures, such as Personal Protective Equipment:

Eye/face protection

Wear splash resistant safety goggles.

Skin Protection

Wear suitable protective clothing such as coveralls or long sleeve shirt and pants.

Respiratory Protection

Respiratory protection is not required under normal conditions of use.

Glove Recommendations

Wear suitable gloves: nitrile, latex, rubber gloves.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------|----------------------------|---|------------------|
| Appearance | White non-Newtonian liquid | Physical State | Liquid |
| Odor | Mild, sweet | Color | Light brown |
| Odor Threshold | Not available | pH | 7 - 8.5 |
| Melting Point | Not available | Boiling Point | 100 °C |
| Freezing point | Not available | Evaporation Rate | Not available |
| Boiling Point Range | Not available | Flammability (solid, gas) | Not available |
| Autoignition | Not available | Flash Point | Does not flash |
| Lower Explosive Limit | Not applicable | Decomposition | Not available |
| Upper Explosive Limit | Not applicable | Vapor Pressure | 2.4 kPa at 20 °c |
| Vapor Density (air=1) | Not available | Specific Gravity (water=1) | 1 - 1.04 |
| Water Solubility | Complete | Partition coefficient: n-octanol/water | Not available |
| Viscosity | Not available | Solubility (Other) | Not available |
| Density | 1 - 1.04 | Molecular Weight | Not available |

Other Information:

No information is available.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:

No hazardous reaction when handled and stored according to provisions.

Chemical Stability:

Stable under normal conditions of use.

Conditions to Avoid:

None known.

Incompatible Materials:

Electrically energized equipment, Strong oxidizer, water-reactive materials.

Hazardous decomposition products:

None known.

Thermal decomposition products:

Under certain extreme conditions there may be release of toxic and/or corrosive gases: oxides of carbon, oxides of sulfur, oxides of nitrogen, hydrogen fluoride.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity:

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Diethylene glycol monobutyl ether (112-34-5)

Oral LD50 Rat 5660 mg/kg

Dermal LD50 Rabbit 2700 mg/kg

Cocamidopropyl betaine (61789-40-0)

Oral LD50 Rat 4900 mg/kg

1,2-Propylene glycol (57-55-6)

Oral LD50 Rat 20 g/kg

Dermal LD50 Rabbit 20800 mg/kg

Ethyl alcohol (64-17-5)

Oral LD50 Rat 7060 mg/kg

Inhalation LC50 Rat 124.7 mg/L 4 h

Ethylene glycol (107-21-1)

Oral LD50 Rat 4700 mg/kg

Dermal LD50 Rat 10600 mg/kg

Hexylene glycol (107-41-5)

Oral LD50 Rat 3700 mg/kg

Inhalation LC50 Rat >310 mg/m³ 1 h

tert-Butyl alcohol (75-65-0)

Oral LD50 Rat 2200 mg/kg

Dermal LD50 Rabbit >2 g/kg

Inhalation LC50 Rat >10000 ppm 4 h

Triethanolamine (102-71-6)



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Oral LD50 Rat 4190 mg/kg
Dermal LD50 Rabbit >20 mL/kg

Immediate Effects

Causes serious eye irritation. Causes mild skin irritation.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

Causes serious eye irritation. Causes mild skin irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Component Carcinogenicity

| | |
|----------------------------------|---|
| <u>Ethyl alcohol</u> | <u>64-17-5</u> |
| ACGIH: | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| DFG: | Category 5 (low carcinogenic potency) |
| <u>Ethylene glycol</u> | <u>107-21-1</u> |
| ACGIH: | A4 - Not Classifiable as a Human Carcinogen |
| <u>tert-Butyl alcohol</u> | <u>75-65-0</u> |
| ACGIH: | A4 - Not Classifiable as a Human Carcinogen |
| <u>Triethanolamine</u> | <u>102-71-6</u> |
| IARC: | Monograph 77 [2000] (Group 3 (not classifiable)) |

Germ Cell Mutagenicity

No information available for the product.

Tumorigenic Data

No information available for the product.

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

No information available for the product.

Specific Target Organ Toxicity - Repeated Exposure

No information available for the product.

Aspiration hazard

No information available for the product.

Medical Conditions Aggravated by Exposure

No information available for the product.

SECTION 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

| | |
|---|---|
| <u>Diethylene glycol monobutyl ether</u> | <u>112-34-5</u> |
| Fish: | LC50 96 h Lepomis macrochirus 1300 mg/L [static] |
| Algae: | EC50 96 h Desmodesmus subspicatus >100 mg/L IUCLID |
| Invertebrate: | EC50 48 h Daphnia magna >100 mg/L IUCLID |
| <u>Cocamidopropyl betaine</u> | <u>61789-40-0</u> |
| Fish: | LC50 96 h Brachydanio rerio 2 mg/L [semi-static] |
| Invertebrate: | EC50 48 h Daphnia magna 6.5 mg/L IUCLID |
| <u>1,2-Propylene glycol</u> | <u>57-55-6</u> |
| Fish: | LC50 96 h Oncorhynchus mykiss 51600 mg/L [static]; LC50 96 h Oncorhynchus mykiss 41 - 47 mL/L [static]; LC50 96 h Pimephales promelas 51400 mg/L [static]; LC50 96 h Pimephales promelas 710 mg/L |
| Algae: | EC50 96 h Pseudokirchneriella subcapitata 19000 mg/L IUCLID |
| Invertebrate: | EC50 48 h Daphnia magna >1000 mg/L [static] EPA |
| <u>Ethyl alcohol</u> | <u>64-17-5</u> |
| Fish: | LC50 96 h Oncorhynchus mykiss 12 - 16 mL/L [static]; LC50 96 h Pimephales promelas >100 mg/L [static]; LC50 96 h Pimephales promelas 13400 - 15100 mg/L [flow-through] |
| Invertebrate: | LC50 48 h Daphnia magna 9268 - 14221 mg/L IUCLID; EC50 48 h Daphnia magna 2 mg/L [static] EPA |
| <u>Ethylene glycol</u> | <u>107-21-1</u> |
| Fish: | LC50 96 h Oncorhynchus mykiss 41000 mg/L; LC50 96 h Oncorhynchus mykiss 14 - 18 mL/L [static]; LC50 96 h Lepomis macrochirus 27540 mg/L [static]; LC50 96 h Oncorhynchus mykiss 40761 mg/L [static]; LC50 96 h Pimephales promelas 40000 - 60000 mg/L [static]; LC50 96 h Poecilia reticulata 16000 mg/L [static] |
| Algae: | EC50 96 h Pseudokirchneriella subcapitata 6500 - 13000 mg/L IUCLID |
| Invertebrate: | EC50 48 h Daphnia magna 46300 mg/L IUCLID |
| <u>Hexylene glycol</u> | <u>107-41-5</u> |
| Fish: | LC50 96 h Pimephales promelas 10500 - 11000 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 10000 mg/L [static]; LC50 96 h Pimephales promelas 8690 mg/L [flow-through]; LC50 96 h Pimephales promelas 10700 mg/L [static] |
| Invertebrate: | EC50 48 h Daphnia magna 2700 - 3700 mg/L EPA |



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| | |
|----------------------------------|--|
| <u>tert-Butyl alcohol</u> | <u>75-65-0</u> |
| Fish: | LC50 96 h Pimephales promelas 6130 - 6700 mg/L [flow-through] |
| Algae: | EC50 72 h Desmodesmus subspicatus >1000 mg/L IUCLID |
| Invertebrate: | EC50 48 h Daphnia magna 933 mg/L IUCLID; EC50 48 h Daphnia magna 4607 - 6577 mg/L [static] EPA |
| <u>Triethanolamine</u> | <u>102-71-6</u> |
| Fish: | LC50 96 h Pimephales promelas 10600 - 13000 mg/L [flow-through]; LC50 96 h Pimephales promelas >1000 mg/L [static]; LC50 96 h Lepomis macrochirus 450 - 1000 mg/L [static] |
| Algae: | EC50 72 h Desmodesmus subspicatus 216 mg/L IUCLID; EC50 96 h Desmodesmus subspicatus 169 mg/L IUCLID |

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Other Toxicity

No additional information is available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not regulated as dangerous goods.

IATA Information:

UN#: Not regulated as dangerous goods.

IMDG Information:

UN#: Not regulated as dangerous goods.

TDG Information:

UN#: Not regulated as dangerous goods.

SECTION 15 - REGULATORY INFORMATION

U.S. Federal Regulations:

| | |
|--|--|
| <u>Diethylene glycol monobutyl ether</u> | <u>112-34-5</u> |
| SARA 313: | 1 % de minimis concentration (applies to R-(OCH ₂ CH ₂) _n -OR', where n = 1, 2, or 3, R=Alkyl C7 or less, or R = Phenyl or Alkyl substituted phenyl, R' = H or Alkyl C7 or less, or OR' consisting of Carboxylic acid ester, Sulfate, Phosphate, Nitrate, or Sulfonate, Chemical Category N230) (related to Glycol ethers) |
| <u>D-Glucuronic acid, polymer with 6-deoxy-L-mannose and D-glucose, acetate, calcium magnesium potassium sodium salt</u> | <u>125005-87-0</u> |
| TSCA 12b: | Section 5 , 1 % de minimus concentration EPA: P-00-0007 |
| <u>Ethylene glycol</u> | <u>107-21-1</u> |
| SARA 313: | 1 % de minimis concentration |
| CERCLA: | 5000 lb final RQ; 2270 kg final RQ |
| <u>tert-Butyl alcohol</u> | <u>75-65-0</u> |
| SARA 313: | 1 % de minimis concentration |

U.S. State Regulations:

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | CA | MA | MN | NJ | PA |
|-----------------------------------|----------|-----|-----|-----|-----|-----|
| Diethylene glycol monobutyl ether | 112-34-5 | No | No | No | Yes | Yes |
| 1,2-Propylene glycol | 57-55-6 | No | No | Yes | Yes | Yes |
| Ethyl alcohol | 64-17-5 | Yes | Yes | Yes | Yes | Yes |
| Ethylene glycol | 107-21-1 | Yes | Yes | Yes | Yes | Yes |
| Hexylene glycol | 107-41-5 | Yes | Yes | Yes | Yes | Yes |
| tert-Butyl alcohol | 75-65-0 | Yes | Yes | Yes | Yes | Yes |
| Triethanolamine | 102-71-6 | No | Yes | Yes | Yes | Yes |



**SAFETY DATA SHEET –
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The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains a chemical known to the state of California to cause cancer and/or reproductive or developmental effects.

| | |
|-------------------------------|---|
| <u>Ethyl alcohol</u> | <u>64-17-5</u> |
| Carc: | carcinogen , 4/29/2011 (in alcoholic beverages) |
| Repro/Dev. Tox | developmental toxicity , 10/1/1987 (in alcoholic beverages) |
| <u>Ethylene glycol</u> | <u>107-21-1</u> |
| Repro/Dev. Tox | developmental toxicity , 6/19/2015 (ingested) |

Canadian WHMIS Ingredient Disclosure List (IDL):

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

| | |
|---|------------------------|
| <u>Diethylene glycol monobutyl ether</u> | <u>112-34-5</u> |
| | 1 % |
| <u>1,2-Propylene glycol</u> | <u>57-55-6</u> |
| | 1 % |
| <u>Ethyl alcohol</u> | <u>64-17-5</u> |
| | 0.1 % |
| <u>Ethylene glycol</u> | <u>107-21-1</u> |
| | 1 % |
| <u>Hexylene glycol</u> | <u>107-41-5</u> |
| | 1 % |
| <u>tert-Butyl alcohol</u> | <u>75-65-0</u> |
| | 1 % |
| <u>Triethanolamine</u> | <u>102-71-6</u> |
| | 1 % |

Component Analysis – Inventory:

Diethylene glycol monobutyl ether (112-34-5)

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|-----|
| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX | TW |
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |



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Cocamidopropyl betaine (61789-40-0)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX | TW |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|----|-----|
| Yes | DSL | EIN | Yes | Yes | No | No | Yes | No | Yes | Yes | No | Yes |

D-Glucuronic acid, polymer with 6-deoxy-L-mannose and D-glucose, acetate, calcium magnesium potassium sodium salt (125005-87-0)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX | TW |
|----|-----|-----|----|----|-----------|-----------|----------------|-----------|----|----|----|-----|
| No | DSL | ELN | No | No | No | No | No | No | No | No | No | Yes |

1,2-Propylene glycol (57-55-6)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX | TW |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |

Ethyl alcohol (64-17-5)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX | TW |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes | Yes |

Ethylene glycol (107-21-1)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX | TW |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes | Yes |

Hexylene glycol (107-41-5)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX | TW |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes | Yes |

tert-Butyl alcohol (75-65-0)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX | TW |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes |

Triethanolamine (102-71-6)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX | TW |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes | Yes |

SECTION 16 - OTHER INFORMATION

Key / Legend:

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information:

Disclaimer:

Safety data sheet is for concentrate as received NOT for end-use solution.